

# GRANITE SERIES



DESCO

**DESCO GRANITE SERIES** is a polymer system designed for use as a floor, cove base and wall system. This durable material is tough, abrasive resistant and light reflective. It offers chemical and U.V. resistant polymers. Multi-color chips are available in four sizes. A decorative coating of unlimited color design or range is achievable.

## TYPICAL USES

- Restrooms
- Cafeterias
- Laboratories
- Pharmaceutical Areas
- Automobile Facilities
- Shower and Locker Rooms
- Corridors
- Health Care Facilities

## PHYSICAL PROPERTIES

### Compressive Strength

ASTM C-579 ..... 10,400 psi

### Tensile Strength

ASTM C-307 ..... 1,650 psi

Flexural Strength..... 4,000 psi

### Shore D Hardness

ASTM D-2240..... 85 – 90

### Bond Strength

ASTM D-4541 ..... 425 psi

### Abrasion Resistance

ASTM D-4060 ..... 0.08 mg

### Color Stability by X-Rite Colorimeter:

No detectable change after 500 hours using the "b" axis.

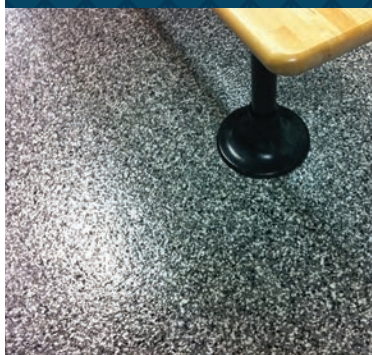
*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

## TEXTURES

**Orange Peel:** Is the standard finish of the Granite System. It provides a textured appearance that hides most concrete deficiencies. It is easy to clean and abrasion resistant.

**Translucent Aggregates:** Incorporates a clear angular multi-faceted aggregate in mesh size as required and selected for your project. It should be used in wet areas and where slip is a concern.

**Smooth:** Requires additional top coats and power sanding of the floor.



## SYSTEM FINISHES

**Satin:** Is a matte finish and is recommended where large windows or windows at ends of corridors are present.

**Semi-Gloss:** Is the standard finish of the Granite system and offers an appealing look.

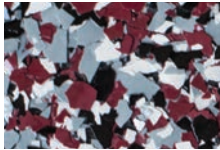
**High Gloss:** Offers the maximum gloss for a wet look.

**UV Resistant:** All the above finishes are offered with a UV resistant factor that slows the color "aging" factor of the floor. This system is recommended for all light colored or blue floors.

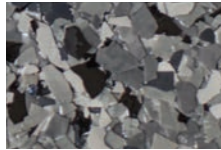
**CR:** Incorporates a chemical resistant finish. Samples should be tested for the chemical to which the floor will be exposed. Consideration should be made for the length of exposure.

## COLORS

15 Standard Colors. Custom colors available.



Charcoal



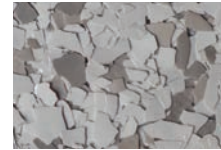
Gunmetal



Harvest



Links



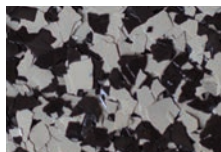
Museum



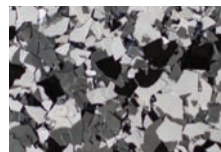
Rinkside



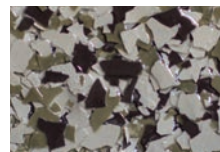
Saddlebag



Sawdust



Silver Dollar



Single Track



Skyline



Slalom



Wake Board



Wine Barrel



Wrough Iron

## MOISTURE SLAB TEST

Determine moisture content of slab at time of application. This test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydraBond.

## PRECAUTIONS

Substrate should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

Concrete should be poured with a water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply granite systems when temperature is less than 50°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

## SURFACE PREPARATION

Surface must be clean, sound and dry. Effectively remove concrete laitance on accessible floor surfaces by mechanical Shotblast or industrial concrete grinder. Surface profile shall be a minimum of CSP-3 by ICRI standards. Acid etching is not acceptable. Areas where flooring is existing must be cleaned to remove all floor material, grease or any residue that might retard inter-facial adhesion between substrate and surfacing.

DESCO warrants its products to be free from defects in material and workman-ship. DESCO's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at DESCO's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to DESCO in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify DESCO of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

Any recommendation or suggestion relating to the use of the products made by DESCO, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use, and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. DESCO cannot guarantee that color will conform to sample, if provided.

DESCO makes no other warranties concerning this product. No other warranties, either expressed or implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall DESCO be liable for consequential or incidental damages.



# GRANITE O.R. SERIES

## WITH DESCO BIO-FINISH



DESCO

**DESCO GRANITE OR SERIES W/BIO-FINISH** is a layered polymer system designed for Healthcare and Biotechnical applications. This durable, slip resistant and chemical resistant system, contains our proprietary SR/Co-polymer finish that is designed for the demanding exposures in the Healthcare and Bio-technical industries.

### TYPICAL USES

- Hospital O.R.s
- Pharmaceutical Manufacturing
- Chemical Storage
- Nurse Station Prep
- Chemical Laboratories
- Patient Toilet / Shower Rooms

### INDUSTRIAL SERIES TG/HT PHYSICAL PROPERTIES

#### Compressive Strength

ASTM C-579 ..... 14,500 psi

#### Flexural Strength

ASTM C-580 ..... 4,200 psi

#### Impact Strength

MIL-D-3134F impact ..... Passes 16 ft/lb

#### Fire Resistance

ASTM D635 ..... Self Extinguishing

#### Taber Abrasion

ASTM D-4060 ..... 0.08 gm

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

### PHYSICAL PROPERTIES

#### Compressive Strength

ASTM C-579 ..... 10,400 psi

#### Tensile Strength

ASTM C-307 ..... 1,650 psi

Flexural Strength ..... 4,000 psi

#### Shore D Hardness

ASTM D-2240 ..... 85 – 90

#### Bond Strength

ASTM D-4541 ..... 425 psi

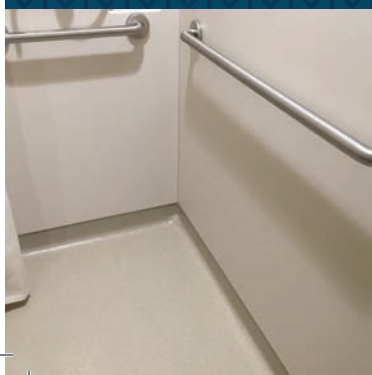
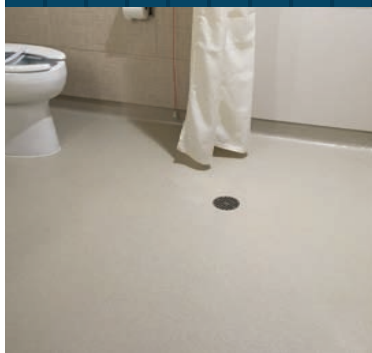
#### Abrasion Resistance

ASTM D-4060 ..... 0.08 mg

#### Color Stability by X-Rite Colorimeter:

No detectable change after 500 hours using the "b" axis.

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

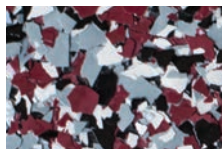


## SYSTEM FINISH

The O.R. Bio-Finish is a semi-gloss which incorporates a micro mesh aggregate to promote slip resistance and stain resistance in wet areas exposed to harsh chemicals.

## COLORS

15 Standard Colors. Custom colors available.



Charcoal



Gunmetal



Harvest



Links



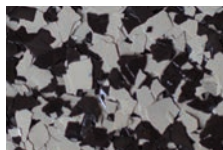
Museum



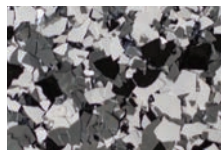
Rinkside



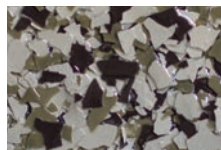
Saddlebag



Sawdust



Silver Dollar



Single Track



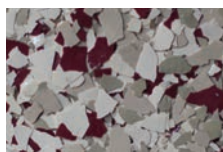
Skyline



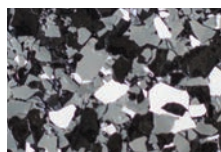
Slalom



Wake Board



Wine Barrel



Wrough Iron

## MOISTURE SLAB TEST

Determine moisture content of slab at time of application. This test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydraBond.

## PRECAUTIONS

Substrate should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

Concrete should be poured with a water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply granite systems when temperature is less than 50°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

## SURFACE PREPARATION

Surface must be clean, sound and dry. Effectively remove concrete laitance on accessible floor surfaces by mechanical Shotblast or industrial concrete grinder. Surface profile shall be a minimum of CSP-3 by ICRI standards. Acid etching is not acceptable. Areas where flooring is existing must be cleaned to remove all floor material, grease or any residue that might retard inter-facial adhesion between substrate and surfacing.

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# DESCO CRETE HF



DESCO

**DESCO CRETE HF** is an industrial series three-component polyurethane resin concrete trowel applied at 1/4" to 3/8". This heavy-duty, seamless topping withstands thermal shock, impact, abrasion and chemical exposure. HF's performance anti-microbial is built into the screed matrix to inhibit growth of bacteria, fungi, molds and mildew. The HF material is designed for extreme impact and abrasion abusive areas.

## TYPICAL USES

- Food & beverage processing areas
- Kitchens
- Wet preparation & packaging areas
- Solvent/chemical stores
- Battery charging areas
- Loading docks

## PHYSICAL PROPERTIES

Compressive Strength (ASTM C-579).....	10,000 psi	Abrasion resistance (ASTM D-4060).....	79 mg
Tensile Strength (ASTM C-307).....	900 psi	Impact Strength, in/lbs (ASTM D-4226).....	>160
Flexural Strength (ASTM C-580).....	2,900 psi	VOC.....	0.0 lb/gal; 0.0 gm/L
Bond Strength (ASTM D-4541).....	>300 psi	Microbial/Fungal Contact Inhibition (A.A.T.C.C. 147-1993) .....	100%

Inclusion of antimicrobial additive with the screed matrix of the industrial floor system ensures the permanency of this biocidal additive even in the event of excessive wear. The antimicrobial additive is effective following ingestion by living bacteria, whereupon metabolic activity within the organism is arrested. Atrophy of the organism follows, when subsequent decay allows re-release of the additive, so ensuring replenished activity at the floor surface.

## SYSTEM FINISH

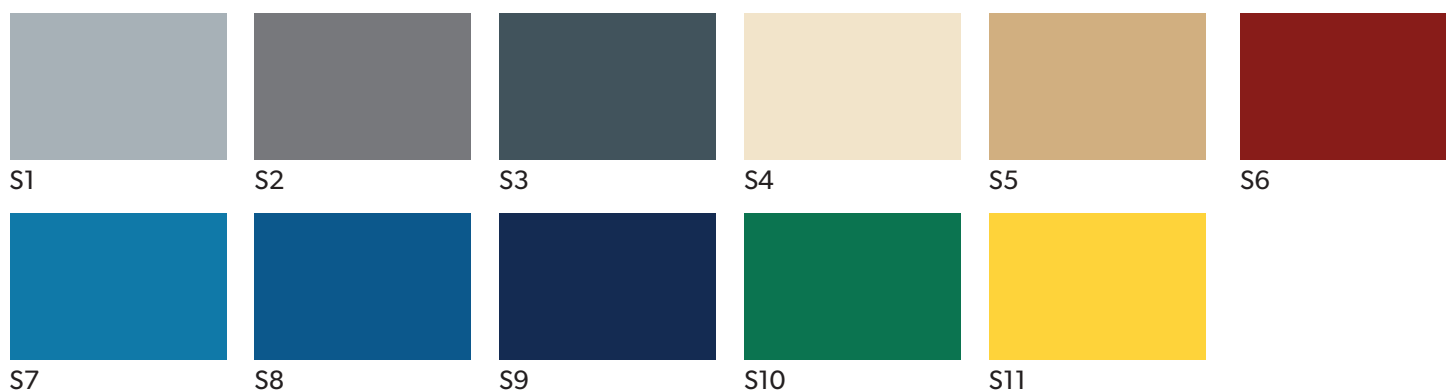
UT-HF is applied in one series of application techniques and is subject to some texture differentiation due to its fast set time.

An antimicrobial additive can be included in the HF if needed.



## COLORS

11 Standard Colors. Custom colors available.



## MOISTURE SLAB TEST

Determine moisture content of slab at time of application. This test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 IN SITU Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 95%.

## SURFACE PREPARATION

- Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.
- New concrete should be cured a minimum of 14 days.
  - Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
  - Remove any laitance or weak surface layers.
  - Surface profile shall be SCP-4 or greater meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
  - All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

1. Polyurethane mortar flooring material shall not be installed or placed on substrates where water is present, or may be expected to be present before the cure of the flooring material.
2. Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.
3. Do not thin with solvents unless advised to do so by Desco.
4. Confirm product performance in specific chemical environment prior to use.
5. Prepare substrate according to "Surface Preparation" portion of this document.
6. Do not apply to below grade slabs unless a heavy unruptured vapor barrier has been installed under the slab.
7. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
8. For industrial/commercial use. Installation by trained personnel only.

*DESCO warrants its products to be free from defects in material and workmanship. DESCO's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at DESCO's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to DESCO in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify DESCO of such nonconformance as required herein shall bar Buyer from recovery under this warranty.*

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# INDUSTRIAL TG/HT

## HIGH TRAFFIC



# DESCO

**DESCO INDUSTRIAL TG/HT (HIGH TRAFFIC)** is a ¼" trowel-applied epoxy mortar flooring system that is triple grouted to create one of the most dense, epoxy mortar systems on the market. Industrial Series TG/HT is designed to go over a high strength concrete substrate. Industrial Series TG/HT possesses exceptional resistance to wear, abrasion and to most mild chemicals. The low viscosity epoxy grouting process, that takes place after the flooring mortar is applied, creates a "low void" matrix made to withstand excessive weight and continuous high traffic.

### TYPICAL USES

- Industrial flooring
- High traffic corridors
- Production floor environments
- Loading docks/transfer stations

### TEXTURES

**Orange Peel:** Offers a smooth easily cleaned surface with a slight texture.

**Translucent Aggregates:** Can be incorporated into the top coats to offer a degree of slip resistance to meet the needs of the end user.

**Medium:** Smooth aggregates with peaks and valleys to mitigate trapped water under foot.

**Aggressive:** Smooth and angular aggregates with a thin polymer binder to lock in aggregates but not masking slip resistance.

### INDUSTRIAL SERIES TG/HT PHYSICAL PROPERTIES

#### Compressive Strength

ASTM C-579 ..... 14,500 psi

#### Flexural Strength

ASTM C-580 ..... 4,200 psi

#### Impact Strength

MIL-D-3134F impact ..... Passes 16 ft/lb

#### Fire Resistance

ASTM D635 ..... Self  
Extinguishing

#### Taber Abrasion

ASTM D-4060 ..... 0.08 gm

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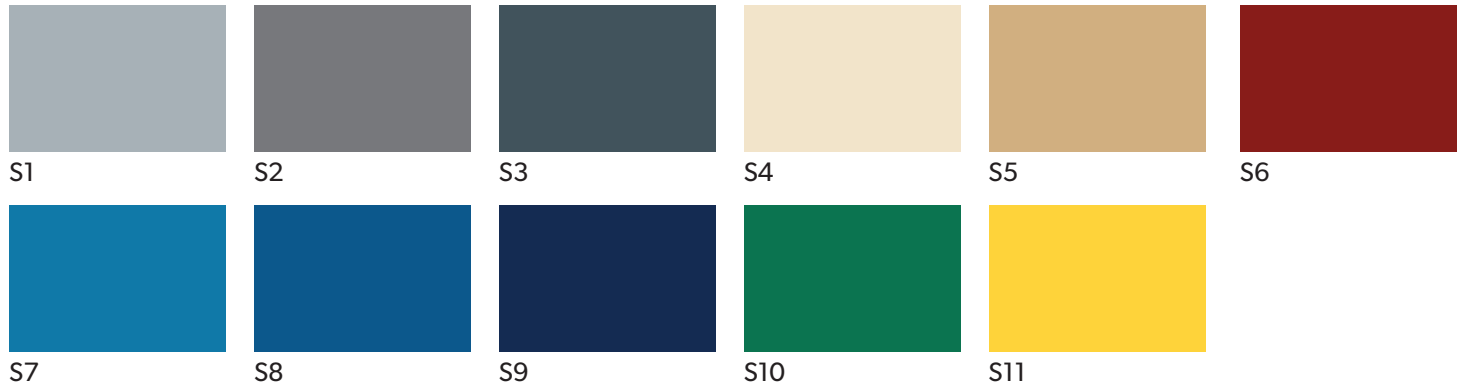


## OPTIONS

- SA** Steel aggregate can be added to the trowel or layered system to give enhanced impact resistance.
- CR** All the above systems are offered with chemical resistant top coats, individually designed to meet the reagent, exposure times and temperatures of aggressive chemical parameters.
- WM** A Waterproof membrane for suspended slab construction.

## COLORS

11 Standard Colors. Custom colors available.



## MOISTURE SLAB TEST

Determine moisture content of slab at time of application. This test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydraBond.

## SURFACE PREPARATION

**Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Surface profile shall be SCP-4 or greater meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

Substrate should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

Concrete should be poured with a water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply granite systems when temperature is less than 50°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

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DESCO

**DESCO CRETE / INDUSTRIAL SERIES** is a three-component decorative quartz polyurethane resin concrete, is trowel applied at 1/4". This decorative, heavy-duty, seamless topping withstands thermal shock, impact, abrasion and chemical exposure. HQ's performance anti-microbial is built into the screed matrix to inhibit growth of bacteria, fungi, molds and mildew. The HQ material is designed for heavy duty areas where impact, thermal shock and abrasions resistance is needed and an aesthetic appearance is desired.

## TYPICAL USES

- Food & beverage processing areas
- Wet preparation & packaging areas
- Kitchens
- Solvent/chemical stores
- Battery charging areas
- Loading docks

## PERFORMANCE DATA

**Compressive Strength**  
(ASTM C-579) ..... 10,000 psi

**Tensile Strength**  
(ASTM C-307) ..... 900 psi

**Flexural Strength**  
(ASTM C-580) ..... 2,900 psi

**Bond Strength**  
(ASTM D-4541) ..... > 300 psi

**Abrasion Resistance**  
(ASTM D-4060) ..... 79 mg

**Impact Strength, in/lbs**  
(ASTM D-4226) ..... > 160

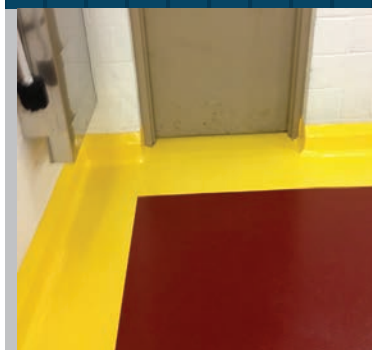
**VOC** ..... 0.0 lb/gal;  
0.0 gm/L

**Microbial/Fungal Contact Inhibition**  
(A.A.T.C.C. 147-1993) ..... 100%

*Inclusion of antimicrobial agents within the screed matrix of the industrial floor system ensures the permanency of this biocidal additive even in the event of excessive wear. Antimicrobial agents are effective following ingestion by living bacteria, whereupon metabolic activity within the organism is arrested. Atrophy of the organism follows, when subsequent decay allows re-release of the antimicrobial additive, so ensuring replenished activity at the floor surface.*

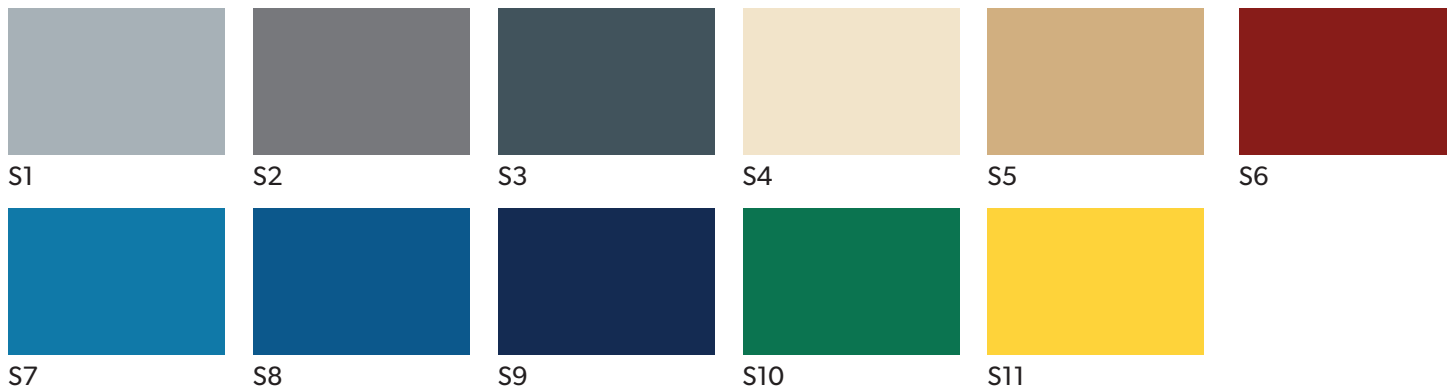
## BENEFITS

- Seamless, hygienic finish; no crevices in which dirt and bacteria can dwell
- Inhibits growth of staphylococcus, E-coli, salmonella and listeria
- Impact & abrasion resistant surface suitable for heavy foot traffic and fork lift operation
- Low odor, fast cure installation
- Excellent corrosion & chemical resistance
- Thermal shock resistant; steam cleanable: non-dusting, non-tainting
- Anti-slip surface



## COLORS

11 Standard Colors. Custom colors available.



## TYPICAL APPLICATION

**One Coat** ..... Desco Industrial Series UT-HQ @ 1/4"

**Options** ..... Integral Cove Base

## MOISTURE SLAB TEST

Determine moisture content of slab at time of application. This test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

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## SURFACE PREPARATION

**Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Surface profile shall be SCP-4 or greater meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

Substrate should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

Concrete should be poured with a water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply granite systems when temperature is less than 50°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

DESCO warrants its products to be free from defects in material and workmanship. DESCO's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at DESCO's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to DESCO in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify DESCO of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

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DESCO makes no other warranties concerning this product. No other warranties, either expressed or implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall DESCO be liable for consequential or incidental damages.

# INDUSTRIAL CA



DESCO

**DESCO INDUSTRIAL SERIES CA** is a High Wear fluid applied thermo-setting flooring coating system that can be installed over any sound concrete surface at an economical price. This product possesses exceptional resistance to wear, abrasion and to most acids, alkalis and solvents.

## TYPICAL USES

- Aircraft hangers
- Warehouse Floors
- Automobile Service Bays
- Storage areas
- Corridors

## TEXTURES

**Satin:** Is a matte finish and is recommended where large windows or windows at ends of corridors are present.

**Semi-Gloss:** Is the standard finish of the Granite system and offers an appealing look.

**High Gloss:** Offers the maximum gloss for a wet look.

**UV Resistant:** All the above finishes are offered with a UV resistant factor that slows the color "aging" factor of the floor. The system is recommended for all light colored or blue floors.

**CR:** Incorporates a chemical resistant finish. Samples should be tested for the chemical to which the floor will be exposed. Consideration should be made for the length of the exposure.

## PHYSICAL PROPERTIES

### Compressive Strength

ASTM C-579 ..... 9,000 psi

### Tensile Strength

ASTM C-307 ..... 2,250 psi

Flexural Strength..... 4,000 psi

### Shore D Hardness

ASTM D-2240..... 85 – 90

### Bond Strength

ASTM D-4541 ..... 425 psi

### Abrasion Resistance

ASTM D-4060 ..... 0.08 gm

### Color Stability by X-Rite Colorimeter:

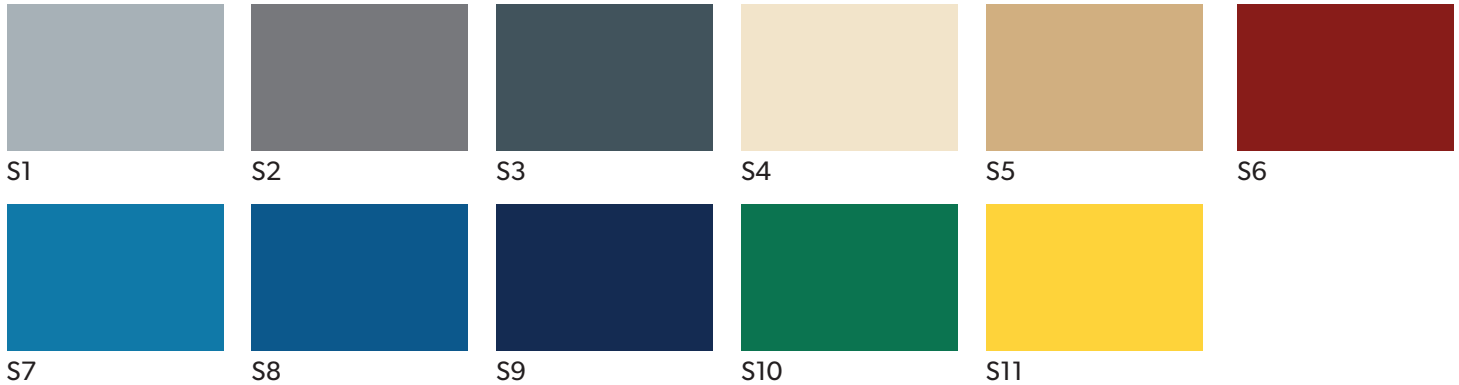
No detectable change after 500 hours using the "b" axis.

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*



## COLORS

11 Standard Colors. Custom colors available.



## MOISTURE SLAB TEST

Determine moisture content of slab at time of application. This test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydraBond.

## SURFACE PREPARATION

**Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Surface profile shall be SCP 2-3 or greater meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

A water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply systems when temperature is less than 5°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

DESCO warrants its products to be free from defects in material and workmanship. DESCO's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at DESCO's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to DESCO in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify DESCO of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

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# INDUSTRIAL TG

## TROWEL GRADE



**DESCO INDUSTRIAL TG** is a trowel grade thermos setting flooring material that is a solid color resin. It can be applied over rough to smooth concrete surfaces either by hand trowel or power trowel. This system is offered with the leading stain resistant finish coats if needed. It is normally applied at 1/8" to 1/4" thickness.

### TYPICAL USES

- Laboratories
- Chemical containment
- Corridors
- Bio Tech processing
- Manufacturing

### TEXTURES

**Orange Peel:** Offers a smooth easily cleaned surface with a slight texture.

**Translucent Aggregates:** Can be incorporated into the top coats to offer a degree of slip resistance to meet the needs of the end user.

### PHYSICAL PROPERTIES

#### Compressive Strength

ASTM C-579 ..... 10,700-11,000 psi

#### Tensile Strength

ASTM C-307 ..... 2,250 psi  
Flexural Strength..... 4,000 psi

#### Shore D Hardness

ASTM D-2240..... 85 – 90

#### Bond Strength

ASTM D-4541 ..... 425 psi

#### Abrasion Resistance

ASTM D-4060 ..... 0.08 gm

#### Color Stability by X-Rite Colorimeter:

No detectable change after 500 hours using the "b" axis.

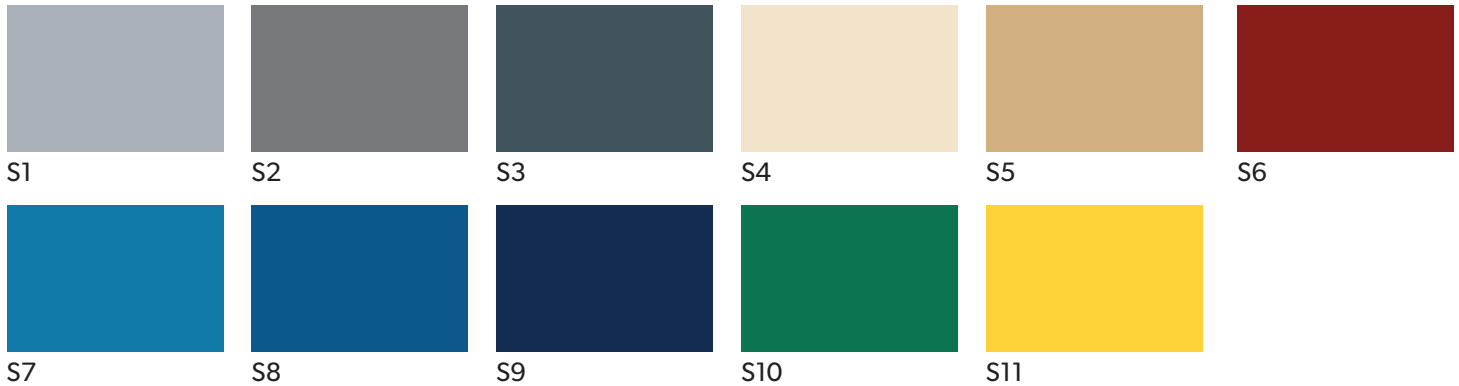
*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

### OPTIONS

- SA** Steel aggregate can be added to the trowel or layered system to give enhanced impact resistance.
- CR** All the above systems are offered with chemical resistant top coats, individually designed to meet the reagent, exposure times and temperatures of aggressive chemical parameters.
- WM** A Waterproof membrane for suspended slab construction.

## COLORS

11 Standard Colors. Custom colors available.



## MOISTURE SLAB TEST

Determine moisture content of slab at time of application. This test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydraBond.

## SURFACE PREPARATION

**Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Surface profile shall be SCP 2-3 or greater meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

A water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply systems when temperature is less than 5°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

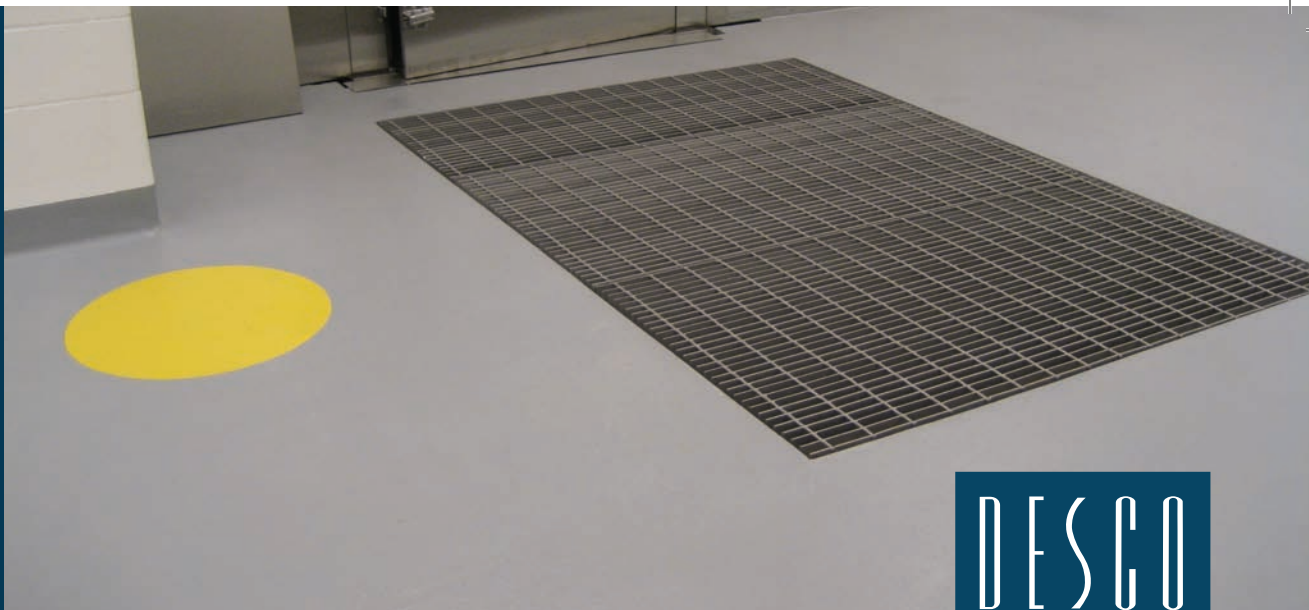
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# INDUSTRIAL LB



DESCO

**DESCO INDUSTRIAL LB** is a highly molecular cross-linked polymer that is applied in multiple layers. The layering can accommodate varying textures from smooth to aggressive with the ability to build thickness to the needs of the environmental conditions.

## TYPICAL USES

- Manufacturing
- Food preparation kitchens
- Locker rooms
- Restrooms
- Industrial floors
- Chemical storage

## TEXTURES

**Orange Peel:** Offers a smooth easily cleaned surface with a slight texture.

**Medium:** Smooth aggregates with peaks and valleys to mitigate trapped water under foot.

**Aggressive:** Smooth and angular aggregates with a thin polymer binder to lock in aggregates but not masking slip resistance.

## PHYSICAL PROPERTIES

### Compressive Strength

ASTM C-579 ..... 10,700-11,000 psi

### Tensile Strength

ASTM C-307 ..... 2,250 psi  
Flexural Strength..... 4,000 psi

### Shore D Hardness

ASTM D-2240 ..... 85 – 90

### Bond Strength

ASTM D-4541 ..... 425 psi

### Abrasion Resistance

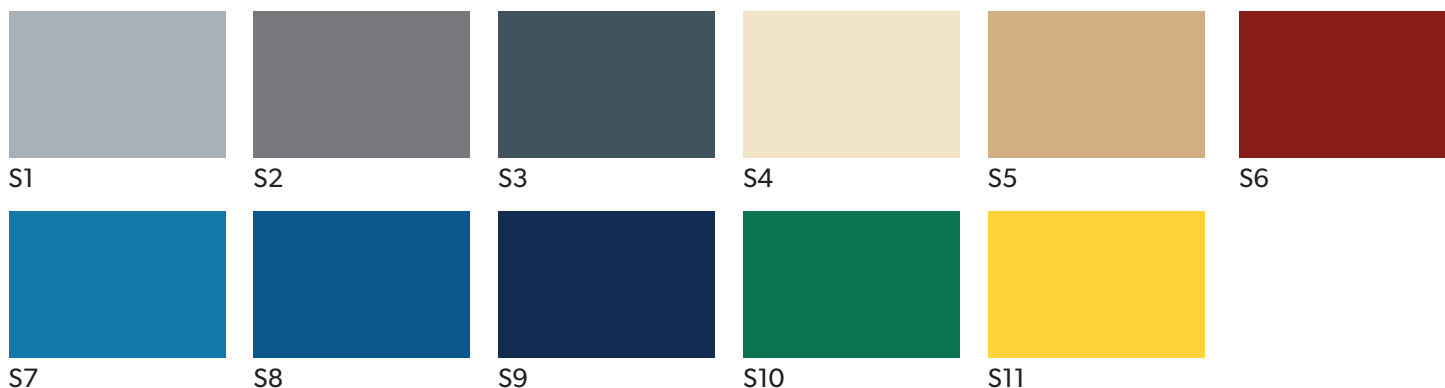
ASTM D-4060 ..... 0.08 gm

## OPTIONS

- SA** Steel aggregate can be added to the trowel or layered system to give enhanced impact resistance.
- CR** All the above systems are offered with chemical resistant top coats, individually designed to meet the reagent, exposure times and temperatures of aggressive chemical parameters.
- WM** A Waterproof membrane for suspended slab construction.

## COLORS

11 Standard Colors. Custom colors available.



## MOISTURE SLAB TEST

Determine moisture content of slab at time of application. This test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydrBond.

## SURFACE PREPARATION

**Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured a minimum of 14 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Surface profile shall be SCP 2-3 or greater meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

A water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply systems when temperature is less than 5°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

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# MRF – WC

## MECHANICAL ROOM FLOORING



DESCO

### DESCO MRF – WC

Mechanical Room Floor with Wear Coarse is a containment coating for interior areas that require containment of water and other fluids while also being subjected to high wear or abuse. A full waterproof membrane at 25 mils with an epoxy body coat at a nominal 1/8". Smooth, medium, or aggressive textures are offered.

It can be used in combination with Desco MRF where the abuse resistance is not required, thus reducing the cost.

### TYPICAL USES

- Mechanical Rooms
- Mezzanines
- Computer sub floors

### SYSTEM FINISHES

**Translucent Aggregates:** Can be incorporated into the top coats to offer a degree of slip resistance to meet the needs of the end user.

**Smooth:** Requires additional top coats and power sanding of the floor.

**Medium:** Smooth aggregates with peaks and valleys to mitigate trapped water under foot.

**Aggressive:** Smooth and angular aggregates with a thin polymer binder to lock in aggregates.

### PHYSICAL PROPERTIES

#### Tensile Elongation

ASTM D-142 ..... 500%

#### Tensile Strength

ASTM C-307 ..... 955 psi

#### Impact Resistance

Gardner Impact ..... 100 in/lb

#### Shore D Hardness

ASTM D-2240 ..... 85

#### Adhesion to Peel

ASTM C-903 ..... 37 pli

#### Water Absorption

ASTM 570 ..... 2.6%

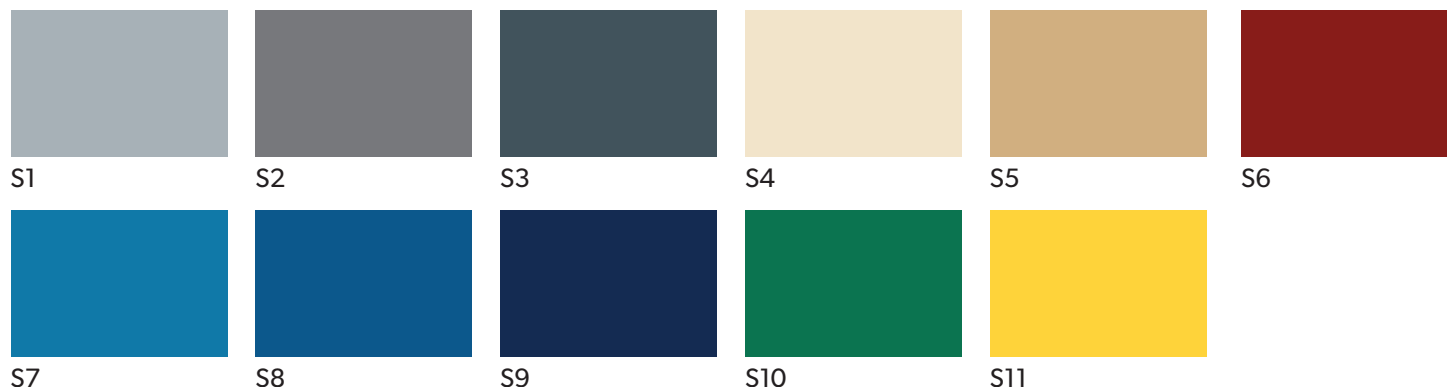
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## COLORS

11 Standard Colors. Custom colors available.



## MOISTURE SLAB TEST

To determine moisture content of slab at time of application; this test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydrBond.

## SURFACE PREPARATION

**Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Surface profile shall be SCP 2-3 or greater meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

A water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply systems when temperature is less than 50°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

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# MRF

## MECHANICAL ROOM FLOORING



DESCO

**DESCO MRF – MECHANICAL ROOM FLOORING** is designed for Mechanical Equipment rooms where waterproofing, chemical resistance and wearing surfaces are required. The material can be applied to pump and other equipment basins. Optional cove base is available for full containment.

### TYPICAL USES

- Mechanical Rooms
- Mezzanines
- Computer Rooms

### SYSTEM FINISHES

**Translucent Aggregates:** Can be incorporated into the top coats to offer a degree of slip resistance to meet the needs of the end user.

**Smooth:** This is the standard finish.

A full waterproof membrane at 25 mils with an epoxy top coat. Translucent Aggregate or Orange Peel Finish is available.

### PHYSICAL PROPERTIES

#### Tensile Elongation

ASTM D-142 ..... 500%

#### Tensile Strength

ASTM C-307 ..... 955 psi

#### Impact Resistance

Gardner Impact ..... 100 in/lb

#### Shore D Hardness

ASTM D-2240 ..... 85

#### Adhesion to Peel

ASTM C-903 ..... 37 pli

#### Water Absorbption

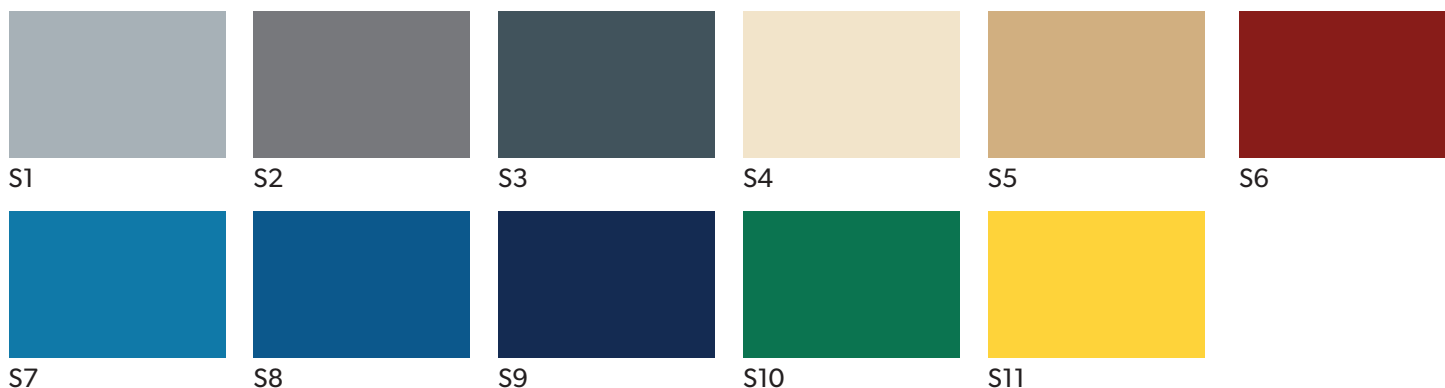
ASTM 570 ..... 2.6%

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*



## COLORS

11 Standard Colors. Custom colors available.



## MOISTURE SLAB TEST

To determine moisture content of slab at time of application; this test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydraBond.

## SURFACE PREPARATION

**Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured a minimum of 24 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Surface profile shall be SCP 2-3 or greater meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

A water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply systems when temperature is less than 50°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

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# WALLGLASS FC



DESCO

**DESCO WALLGLASS FC** is a reinforced wall system formulated with advanced polymer chemistry to allow flexibility and toughness. The Desco Wallglass FC is a fully reinforced wall coating system designed for applications where clean room type properties are required. Desco Wallglass FC has been a staple in Hospital Operating rooms, Sterile rooms, and pharmaceutical clean rooms due to its durability and cleanability.

## TYPICAL USES

- Pharmaceutical manufacturing
- Hospital O.R.
- Sterile cart areas
- Heavy duty kitchens
- Showers
- Laundries

## TEXTURES

**Orange Peel:** Is the standard texture.

**Smooth:** Requires a spray finish.

## SYSTEM FINISHES

**Satin:** An aqueous polyurethane top coat for chemical resistance and low sheen

**Semi-Gloss:** A color-stable epoxy top coat system

**Gloss:** a Chemical and ware resistant polyurethane top coat for added chemical and abrasion resistance

## PHYSICAL PROPERTIES

**Compressive Strength** ..... 10,370 psi  
ASTM 695-85

**Tensile Strength** ..... 3,160 psi  
ASTM 695-85

**Tensile Elongation** ..... 8.0%  
ASTM D638-86

**Hardness** ..... 82  
Shore D

**Abrasion Resistance** ..... 0.033  
ASTM D-4060-90

**Mar Resistance** ..... 1.0 Kg  
ASTM D5178-91

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

## COLORS

Standard color is Desco white. Custom colors available at no upcharge.

## FIBERGLASS CLOTH

A 25 to 40 mil system with 2 ounce to 6 ounce fiberglass cloth

## MOISTURE TEST

Walls and ceilings shall be tested for moisture and pH.

**Moisture:** Using a Tramax or Protometer verify that substrate is dry before proceeding with application.

**Alkalinity:** Using a litmus paper test, check for pH range of neutral to 12 before starting work. Block and concrete walls shall have sample area wetted and pH taken while the surface is still saturated.

## PRECAUTIONS

- Do not apply systems when temperature is less than 5°F above the dew point.
- Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)
- Water from outside sources can cause water whitening of uncured polymer material.
- Confirm product performance in specific chemical environment prior to use.
- Moisture from reverse side of substrate may lead to coating failure.

DESCO warrants its products to be free from defects in material and workmanship. DESCO's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at DESCO's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to DESCO in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify DESCO of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

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# WALLGLASS FS



DESCO

**DESCO WALLGLASS FS** is a chopped fiber stran reinforced wall system formulated with advanced polymer chemistry to allow flexibility and toughness while creating an aesthetic textured wall finish. The Desco Wallglass FS is a great architectural finish over all types of wall board needing a more durable, reinforced finish. Desco Wallglass FS adds an aesthetic texture and added feature.

## TYPICAL USES

- Corridors
- Cafeterias
- Restrooms
- Gymnasiums
- Locker rooms
- Storage areas

## SURFACES

Typical use is over enhanced sheet rock or plaster. The blown on nature of the system produces a lattice work of texture after the sprayed on fiberglass fiber are matted into the undercoat. Multiple top coats will lessen the texture to offer a custom wall system.

## SYSTEM FINISHES

**Satin:** An aqueous polyurethane top coat for chemical resistance and low sheen

**Semi-Gloss:** A color-stable epoxy top coat system

**Gloss:** a Chemical and ware resistant polyurethane top coat for chemical and abrasion resistance

## PHYSICAL PROPERTIES

**Compressive Strength** ..... 10,370 psi  
ASTM 695-85

**Tensile Strength** ..... 3,160 psi  
ASTM 695-85

**Tensile Elongation** ..... 8.0%  
ASTM D638-86

**Hardness** ..... 82  
Shore D

**Abrasion Resistance** ..... 0.033  
ASTM D-4060-90

**Mar Resistance** ..... 1.0 Kg  
ASTM D5178-91

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*



## COLORS

Standard color is Desco white. Custom colors available at no upcharge.

## FIBERGLASS STRAND

A 15 to 25 mil system with random fiberglass strands

## MOISTURE TEST

Walls and ceilings shall be tested for moisture and pH.

**Moisture:** Using a Tramax or Protometer verify that substrate is dry before proceeding with application.

**Alkalinity:** Using a litmus paper test, check for pH range of neutral to 12 before starting work. Block and concrete walls shall have sample area wetted and pH taken while the surface is still saturated.

## PRECAUTIONS

- Do not apply systems when temperature is less than 5°F above the dew point.
- Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)
- Water from outside sources can cause water whitening of uncured polymer material.
- Confirm product performance in specific chemical environment prior to use.
- Moisture from reverse side of substrate may lead to coating failure.

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# WALLGLASS FR



DESCO

**DESCO WALLGLASS FR** is a micro flake reinforced wall and/or ceiling system formulated with advanced polymer chemistry to allow flexibility and toughness. The Desco Wallglass FR was created to give the system reinforced properties at a more economical price point. While not as durable as the fully reinforced Fiberglass Cloth system, the Wallglass FR stands up great to most pharmaceutical and healthcare environments.

## TYPICAL USES

- Chemistry laboratories
- Kitchens
- Health care
- Chemical storage
- Shower & locker rooms

## SURFACES

**Smooth** – Over enhanced sheet rock or plaster an orange pool texture is achieved by roller application. Less stipple can be achieved by spray application.

**Block or Concrete** – An epoxy filler ban coat is added to the system to achieve a pinhole free surface. This system will have a stipple texture.

## SYSTEM FINISHES

**Satin:** An aqueous polyurethane coat for chemical resistance and low sheen

**Semi-Gloss:** A color-stable epoxy top coat system

**Gloss:** a Chemical and ware resistant polyurethane top coat for chemical and abrasion resistance

## PHYSICAL PROPERTIES

**Compressive Strength** ..... 10,370 psi  
ASTM 695-85

**Tensile Strength** ..... 3,160 psi  
ASTM 695-85

**Tensile Elongation** ..... 8.0%  
ASTM D638-86

**Hardness** ..... 82  
Shore D

**Abrasion Resistance** ..... 0.033  
ASTM D-4060-90

**Mar Resistance** ..... 1.0 Kg  
ASTM D5178-91

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*



## COLORS

Standard color is Desco white. Custom colors available at no upcharge.

## FIBERGLASS MICRO-FLAKE REINFORCING

A 10 to 15 mil system with micro-flake reinforcing

## MOISTURE TEST

Walls and ceilings shall be tested for moisture and pH.

**Moisture:** Using a Tramax or Protometer verify that substrate is dry before proceeding with application.

**Alkalinity:** Using a litmus paper test, check for pH range of neutral to 12 before starting work. Block and concrete walls shall have sample area wetted and pH taken while the surface is still saturated.

## PRECAUTIONS

- Do not apply systems when temperature is less than 5°F above the dew point.
- Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)
- Water from outside sources can cause water whitening of uncured polymer material.
- Confirm product performance in specific chemical environment prior to use.
- Moisture from reverse side of substrate may lead to coating failure.

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# WALLGLASS FX



DESCO

**DESCO WALLGLASS FX** is a non-reinforced wall and ceiling system formulated with advanced polymer chemistry to allow flexibility and toughness. The Desco Wallglass FX series can be applied on ceilings and over concrete block walls where reinforcing is not needed. Desco WallGlass FX is available in high gloss, semi-gloss or satin finish.

## TYPICAL USES

- Pharmaceutical manufacturing
- Sterile areas
- Hospital O.R.
- Corridors
- Kitchens
- Showers
- Laundries
- Restrooms

## SURFACES

**Smooth** – Over enhanced sheet rock or plaster an orange pool texture is achieved by roller application. Less stipple can be achieved by spray application.

**Block or Concrete** – An epoxy filler coat is added to the system to achieve a pinhole free surface. This system will have a stipple texture.

## SYSTEM FINISHES

**Satin:** An aqueous polyurethane top coat for chemical resistance and low sheen

**Semi-Gloss:** A color-stable epoxy top coat system

**Gloss:** a Chemical and ware resistant polyurethane top coat for chemical and abrasion resistance

## PHYSICAL PROPERTIES

**Compressive Strength** ..... 10,370 psi  
ASTM 695-85

**Tensile Strength** ..... 3,160 psi  
ASTM 695-85

**Tensile Elongation** ..... 8.0%  
ASTM D638-86

**Hardness** ..... 82  
Shore D

**Abrasion Resistance** ..... 0.033  
ASTM D-4060-90

**Mar Resistance** ..... 1.0 Kg  
ASTM D5178-91

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*



## COLORS

Standard color is Desco white. Custom colors available at no upcharge.

## FIBERGLASS NON-REINFORCED

A 10 - 15 mil system sans reinforcing

## MOISTURE TEST

Walls and ceilings shall be tested for moisture and pH.

**Moisture:** Using a Tramax or Protometer verify that substrate is dry before proceeding with application.

**Alkalinity:** Using a litmus paper test, check for pH range of neutral to 12 before starting work. Block and concrete walls shall have sample area wetted and pH taken while the surface is still saturated.

## PRECAUTIONS

- Do not apply systems when temperature is less than 5°F above the dew point.
- Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)
- Water from outside sources can cause water whitening of uncured polymer material.
- Confirm product performance in specific chemical environment prior to use.
- Moisture from reverse side of substrate may lead to coating failure.

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# MOSAIC SERIES



DESCO

**DESCO MOSAIC** is a seamless, industrial, decorative, resinous floor system manufactured for a wide range of uses. The system offers superior, chemical, impact and abrasion resistant properties as a heavy duty system while maintaining an aesthetic appearance. A gradation of special aggregates adds higher compaction of the system, creating a chip resistant floor. Different finish coats and/or textures are available for a more wide range of uses.

## TYPICAL USES

- Pharmaceutical Processing Areas
- Food and Beverage
- Clean Rooms
- Restrooms
- Kitchens
- Locker Rooms
- Laboratories
- Production Aisleways
- Surgery Rooms

## TEXTURES

**Orange Peel:** Offers a smooth easily cleaned surface with a slight texture.

**Translucent Aggregates:** Can be incorporated into the top coats to offer a degree of slip resistance to meet the needs of the end user.

**Medium (for DB System Only):** Smooth aggregates with peaks and valleys to mitigate trapped water under foot.

**Aggressive (for DB System Only):** Smooth and angular aggregates with a thin polymer binder to lock in aggregates but not masking slip resistance.

## PHYSICAL PROPERTIES

### Compressive Strength

ASTM C-579 ..... 11,000 psi

### Tensile Strength

ASTM C-307 ..... 2,250 psi

### Impact Resistance

Gardner Impact ..... >160 in/lb

**Flexural Strength** ..... 4,000 psi

ASTM C-580

### Bond Strength

ASTM D-4541 ..... 375 psi

### Abrasion Resistance

ASTM D-460 ..... 70-90 mgs lost



## SYSTEM FINISHES

**Satin:** A matte finish

**Semi-Gloss:** is the standard finish of Desco Mosaic

**Gloss:** offers the maximum gloss for a wet look

**High Wear Additive** is offered in all above finishes.

## UV RESISTANCE

**Normal:** Recommended for dark or medium colors, except blue.

**Ultra U.V. Resistant:** Recommended for whites, blues and other light color combinations.

## COLORS

Contact Desco Coatings for color availability. Custom colors are available upon request. Some color variation is to be expected.

## MOISTURE SLAB TEST

One of the following three methods shall be used to determine moisture content of slab at time of application. These tests only measure the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydroBond.

## PRECAUTIONS

Substrate should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

Concrete should be poured with a water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply granite systems when temperature is less than 50°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

## SURFACE PREPARATION

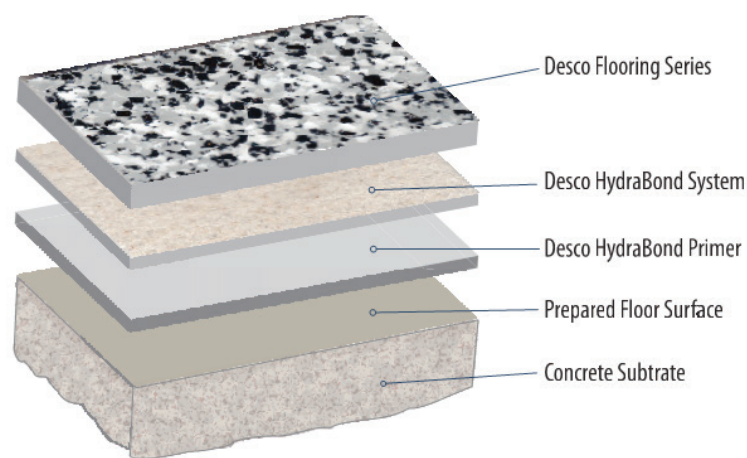
Concrete: Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants. New concrete should be cured until moisture content is below manufacturers recommended standards. Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed. Remove any laitance or weak surface layers. Surface shall be prepared by recirculating vacuum Shotblast equipment and/or diamond grinder to a profile of CSP-3 to 4 (ICRI standard). Moisture vapor transmission should be tested as directed in MOISTURE SLAB TESTS SECTION. All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

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# HYDRABOND



DESCO

**DESCO HYDRABOND** gives you the confidence to specify a flooring system UNAFFECTED by rapid construction and fresh concrete. **Desco HydraBond** systems can be place over concrete as new as three days old. Desco HydraBond is NOT dependent on Moisture Vapor Transmission readings! **Desco HydraBond** reduces the passage of water vapor and moisture through slabs on, above or below grade, thus eliminating delamination and blistering of resin floor systems, epoxy terrazzo, coatings and other floor system. Contact your Desco approved applicator for further details.

## KEY ADVANTAGES

- No vapor barrier is required under concrete slabs
- Application can proceed without the need for moisture vapor readings
- Low VOC, water based
- High moisture tolerance
- Compatible with Desco flooring systems
- Does not support mold

## PHYSICAL PROPERTIES

**Material** .....2-component epoxy

**Density** .....12.70 lbs/gallon

VOC Content, Mixed .....< 1 g/L

Volume Solids.....59%

**Flash Point:** Part A .....>212°F

Part B .....170 °F

**Full Cure & Max. Resistance** 7 days

Hardness, Shore D

ASTM-D-2240 .....70-75

**Compressive Strength**

ASTM-C- 579.....6500 psi

**Flexural Strength**

ASTM-C-580 .....2100 psi

**Adhesion To:**

-New concrete (5 days) .....110 psi

-Moist concrete (28 days) .....550 psi

-Dry concrete (28 days) .....580 psi

**Temperature Resistance:**

a)Continuous:

-Dry heat.....140°F (60°C)

- Humid .....113°F (45°C)

b)Intermittent:

- High pressure water .....185°F (85°C)

-Dry heat .....149-185°F (65-85°C)

## SYSTEM FINISH

It is always recommended that HydroBond be overcoated with a Desco finished floor system. A mandatory period of 18-24 hours is required before overcoating.

## SITE CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F.
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- Must be installed at recommended coverage for use with moisture sensitive floor coverings.

## APPLICATION

### SURFACE PREPARATION

All substrates must be properly prepared as outlined. Work must be performed by Desco trained or experienced resin flooring or epoxy terrazzo contractors. Consult with Desco Coatings, Inc. regarding any questions. Shot concrete slabs to create a coarse texture surface profile minimum CSP-3. Edges may be diamond ground.

## INSTALLATION

### HOW DOES HYDRABOND WORK?

HydraBond is not affected by high levels of metasilicates (concrete densifiers). With proven Reservoir Technology HydraBond's porosity creates void "reservoirs" during initial cure. These interstitial voids attract and disperse vapor. Vapors then move away from the osmotic membrane (concrete to polymer interface). HydraBond's Reservoir Technology removes the key component of the osmotic cell which causes blistering of floor coatings.

## FINE PRINT LIMITATION BY OTHERS

- An effective vapor barrier must be in place under concrete slab or warranty is voided.
- Moisture vapor readings must be taken every 1,000 sq. ft. or warranty is voided.
- Moisture vapor readings must never build over 90% to 95% under installed flooring or warranty is voided.

## MAINTENANCE

After completing the application of Desco HydraBond and the topcoats or floor system, the installer should provide the owner with maintenance instructions relevant to the specific topcoats or floor system. If floors become slippery due to animal fats, oil, grease, or soap film, clean and rinse thoroughly. Desco Coatings, Inc. can be contacted at 800-426-4164 for suggestions on recommendation to be considered by your design experts.

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# QUARTZ CREMONA TG O.R. SERIES WITH DESCO BIO-FINISH



DESCO

## DESCO CREMONA TG/OR SERIES WITH DESCO BIO-FINISH

is a fully trowel applied seamless flooring system using decorative quartz aggregate and thermosetting resins for an aesthetic/decorative finish. The Desco, SR-Copolymer Bio-finish, offers a slip resistant finish while still maintaining an easy to clean surface. Desco's SR-Copolymer finish is resistant against staining from iodine and all other chemicals used for disinfection in the Healthcare industry. This Desco System can be seamlessly carried up walls as a wainscot or full height for impact resistance.

## TYPICAL USES

- Hospital Operating Rooms
- Bio-tech Clean rooms
- Laboratories
- Sterile Cores/rooms
- Pharmaceutical Packaging
- Chemical Storage

## PHYSICAL PROPERTIES

### Compressive Strength

ASTM C-579 ..... 12,000 psi

### Tensile Strength

ASTM C-307 ..... 2,850 psi

**Flexural Strength** ..... 4,000 psi

### Shore D Hardness

ASTM D-2240 ..... 85 – 90

### Bond Strength

ASTM D-4541 ..... 425 psi

### Abrasion Resistance

ASTM D-4060 ..... 0.08 mg

**Pot Life** ..... 35 min

### Cure Time

@ 77°F ..... 10-12 hours

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

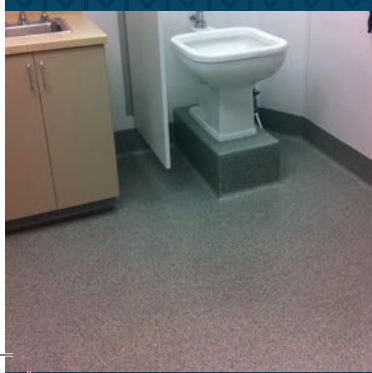
## FLAME SPREAD

Meets ASTM E-84 Steiner Tunnel Test.

## TEXTURES

**Orange Peel:** Offers a smooth easily cleaned surface with a slight texture.

**Translucent Aggregates:** Can be incorporated into the top coats to offer a degree of slip resistance to meet the needs of the end user.



## UV RESISTANCE:

**Normal:** Recommended for dark or Medium colors, except blue.

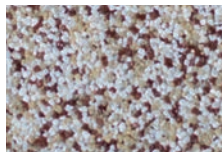
**Ultra U.V. Resistant:** Recommended for whites, blues and other light color combinations.

## COLORS

15 Standard Colors. Custom colors available.



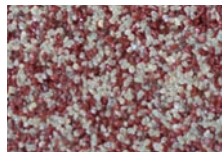
Caldera



Diamondback



Eclipse



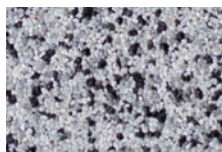
Ember



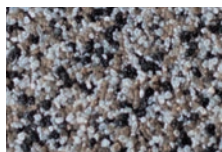
Fen



Gale



Hoarfrost



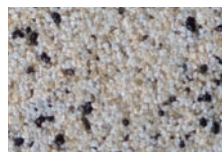
Kestrel



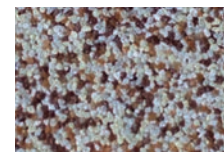
Meadow



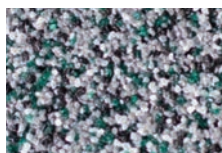
Riptide



Seashore



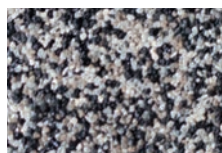
Sequoia



Spruce



Whitewater



Wolfhound

## CHEMICAL RESISTANCE:

Cremona TG -OR Series with Desco Bio Finish is stain resistant to Betadyne Prevail Dura Prep and other slow release iodine products.

## MOISTURE SLAB TEST

One of the following three methods shall be used to determine moisture content of slab at time of application. These tests only measure the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydrBond.

## SURFACE PREPARATION

Concrete: Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants. New concrete should be cured until moisture content is below manufacturers recommended standards. Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed. Remove any laitance or weak surface layers. Surface shall be prepared by recirculating vacuum Shotblast equipment and/or diamond grinder to a profile of CSP-3 (ICRI standard). Moisture vapor transmission should be tested as directed in MOISTURE SLAB TESTS SECTION. All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

Substrate should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

Concrete should be poured with a water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply granite systems when temperature is less than 50°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

DESCO warrants its products to be free from defects in material and workmanship. DESCO's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at DESCO's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to DESCO in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify DESCO of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

Any recommendation or suggestion relating to the use of the products made by DESCO, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use, and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. DESCO cannot guarantee that color will conform to sample, if provided.

DESCO makes no other warranties concerning this product. No other warranties, either expressed or implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall DESCO be liable for consequential or incidental damages.

**St. Louis:** 9587 Dielman Rock Island | St. Louis, MO 63132 | 800-373-8128

**Kansas City & Arkansas:** 19890 W. 156th St. | Olathe, KS 66062 | 800-426-4164

[www.DescoCoatings.com](http://www.DescoCoatings.com)



# QUARTZ CREMONA TG



**DESCO CREMONA TG** is a trowel applied resin with multi-sized aggregates. It delivers a mosaic look with synthetic aggregates in vivid colors. Available in varying sizes of factory colored aggregates. Top coats are offered in different sheens, textures and color stability. Desco Quartz Cremona TG is a hand troweled system offering unsurpassed physical and chemical resistance with an aesthetic appearance. In wet areas it can be applied full height at 1/8" thickness to offer impact and water protection eliminating grout joints associated with tile products.

## TYPICAL USES

- Biotech
- Hospitals
- Schools
- Laboratories
- Stairs

## PHYSICAL PROPERTIES

### Compressive Strength

ASTM C-579 ..... 12,000 psi

### Tensile Strength

ASTM C-307 ..... 2,850 psi

**Flexural Strength** ..... 4,000 psi

### Shore D Hardness

ASTM D-2240 ..... 85 – 90

### Bond Strength

ASTM D-4541 ..... 425 psi

### Abrasion Resistance

ASTM D-4060 ..... 0.08 mg

**Pot Life** ..... 35 min

Cure Time

@ 77°F ..... 10-12 hours

*Color Stability by X-Rite Colorimeter: No detectable change after 500 hours using the "b" axis*

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

## TEXTURES

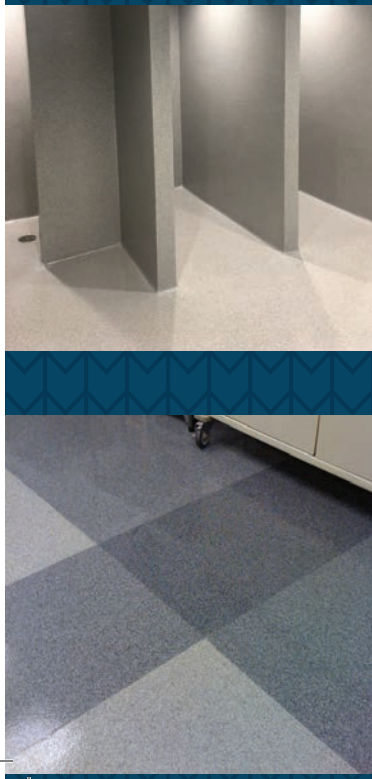
**Orange Peel:** Offers a smooth easily cleaned surface with a slight texture.

**Translucent Aggregates:** Can be incorporated into the top coats to offer a degree of slip resistance to meet the needs of the end user.

## UV RESISTANCE:

**Normal:** Recommended for dark or Medium colors, except blue.

**Ultra U.V. Resistant:** Recommended for whites, blues and other light color combinations.



## COLORS

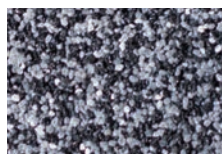
15 Standard Colors. Custom colors available.



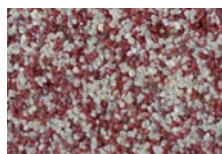
Caldera



Diamondback



Eclipse



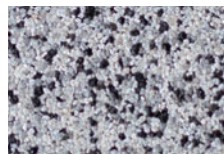
Ember



Fen



Gale



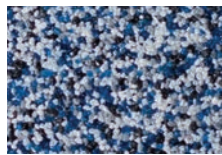
Hoarfrost



Kestrel



Meadow



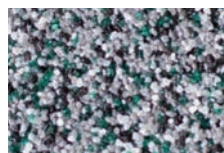
Riptide



Seashore



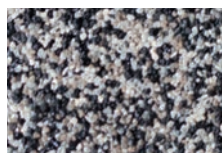
Sequoia



Spruce



Whitewater



Wolfhound

## MOISTURE SLAB TEST

One of the following three methods shall be used to determine moisture content of slab at time of application. These tests only measure the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydraBond.

## SURFACE PREPARATION

**Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants. New concrete should be cured until moisture content is below manufacturers recommended standards. Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed. Remove any laitance or weak surface layers. Surface shall be prepared by recirculating vacuum Shotblast equipment and/or diamond grinder to a profile of CSP-3 (ICRI standard). Moisture vapor transmission should be tested as directed in MOISTURE SLAB TESTS SECTION. All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

Substrate should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

Concrete should be poured with a water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply granite systems when temperature is less than 50°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

DESCO warrants its products to be free from defects in material and workmanship. DESCO's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at DESCO's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to DESCO in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify DESCO of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

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# QUARTZ CREMONA DB



DESCO

**DESCO QUARTZ CREMONA SERIES** is a strata applied resin with multi-sized aggregates. It delivers a mosaic look with synthetic aggregates in vivid colors. Available in varying sizes of factory colored aggregates. Top coats are offered in different sheens, textures and color stability.

## TYPICAL USES

- Biotech
- Hospitals
- Schools
- Laboratories
- Stairs

## PHYSICAL PROPERTIES

### Compressive Strength

ASTM C-579 ..... 10,000 psi

### Tensile Strength

ASTM C-307 ..... 2,850 psi

**Flexural Strength** ..... 4,000 psi

### Shore D Hardness

ASTM D-2240 ..... 85 – 90

### Bond Strength

ASTM D-4541 ..... 425 psi

### Abrasion Resistance

ASTM D-4060 ..... 0.08 mg

**Pot Life** ..... 35 min

Cure Time

@ 77°F..... 10-12 hours

*Color Stability by X-Rite Colorimeter:*

*No detectable change after 500 hours using the "b" axis*

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

## TEXTURES

**Orange Peel:** Offers a smooth easily cleaned surface with a slight texture.

**Translucent Aggregates:** Can be incorporated into the top coats to offer a degree of slip resistance to meet the needs of the end user.

**Medium:** Smooth aggregates with peaks and valleys to mitigate trapped water under foot.

**Aggressive:** Smooth and angular aggregates with a thin polymer binder to lock in aggregates but not masking slip resistance.



## UV RESISTANCE

**Normal:** Recommended for dark or Medium colors, except blue.

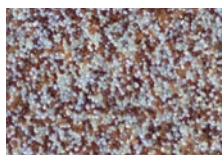
**Ultra U.V. Resistant:** Recommended for whites, blues and other light color combinations.

## COLORS

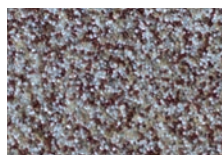
15 Standard Colors. Custom colors available.



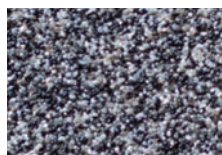
Bracken



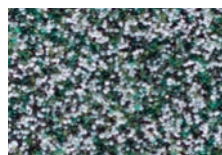
Cedar



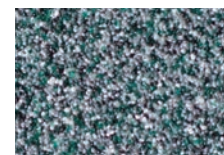
Copperhead



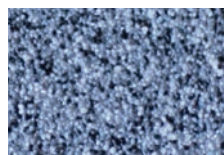
Coyote



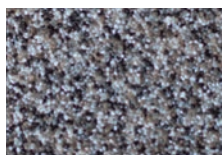
Glade



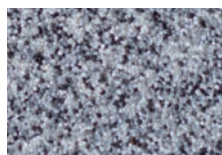
Juniper



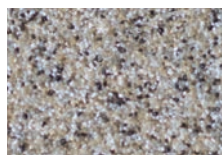
Karst



Osprey



Rime



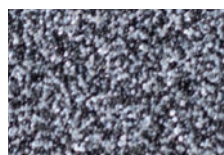
Sandbar



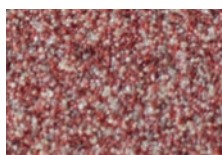
Surf



Torrent



Umbra



Wildfire



Zephyr

## MOISTURE SLAB TEST

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## PRECAUTIONS

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A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

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A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

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