

Desco Mosaic Series Technical Data

DESCRIPTION:

Desco Mosaic is a seamless, 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

PHYSICAL PROPERTIES:

<i>Compressive Strength</i>	
ASTM C-579	11,000 psi
<i>Tensile Strength</i>	
ASTM C-307	2,250 psi
<i>Impact Resistance</i>	
Gardner Impact	>160 in/lb
<i>Flexural Strength</i>	
ASTM C-580	4,000 psi
<i>Bond Strength</i>	
ASTM D-4541	375 psi
<i>Abrasion Resistance</i>	
ASTM D-460	70-90 mgs. lost

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

COLORS:

Contact Desco Coatings for color availability. Custom colors are available upon request.

SYSTEM FINISHES:

- S Satin
SG Semi-Gloss
G Gloss
HW High Wear is offered in all above finishes.

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.

UV RESISTANCE:

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

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

MOISTURE SLAB TESTS

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.

Using a Tramax concrete moisture detection device, firmly apply the test apparatus to concrete that has had sealers or other subsequent coatings removed. The readings shall be 4.2% or less. If readings are higher, use ASTM F-2170 for non conditioned spaces and/or ASTM F1869 for conditioned spaces.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, use the next test method below.

ASTM F-1869 Calcium Chloride Moisture Vapor Transmission Test. Follow test procedures of manufacturer of testing equipment. Results should be below 3 to 4 lbs/1,000 square feet/24 hours. (This test is valid only for conditioned spaces.)

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 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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