

1. PRODUCT DESCRIPTION

A. COMPOSITION

Metallic Luster is a unique architectural, high-solids, resinous floor coating that utilizes metallic and pearlescent powder integral pigments to produce brilliant and dynamic custom effects for illumination and beautification of concrete floors and other surfaces. Metallic and pearlescent will vary from application to application. Samples should be produced by the installing contractor. Although suitable for the metallic pigmentation any clear, high-solids Dex-O-Tex polymeric flooring resin, Dex-O-Tex Metallic Luster integral pigments are most frequently used in conjunction with Dex-O-Tex Clear Epoxy for economy and ease of use. Depending on specific service conditions and owner requirements, Dex-O-Tex Clear Polyaspartic materials are also excellent choices for use with Dex-O-Tex Metallic Luster pigments. Depending on performance requirements, exposure conditions and light reflectivity, other Dex-O-Tex resinous clear topcoats are available to reduce the degree of sheen, enhance chemical resistance, abrasion resistance or provide anti-microbial protection when demanded. Contact your local Dex-O-Tex representative for recommendations.

B. ADVANTAGES AND LIMITATIONS

ADVANTAGES

1. Limitless distinctive designs and color variations.
2. Superior chemical and abrasion resistance.
3. Wide range of metallic colors and resin choices.
4. Blend two or more pigments to create hybrid colors
5. Lower maintenance and life cycle costs vs. other flooring types.
6. LEED-compliant, low odor and fast cure time.
7. Superior resin clarity, color retention and UV stability.
8. Installed by Professional Factory Trained Dex-O-Tex Contractors only.

LIMITATIONS:

1. Not intended for use on exterior concrete slabs-on-grade.
2. Colors and effects will vary based on application techniques.
3. Minimum ambient/substrate temperature of 50°F (10°C).
4. Concrete must be minimum age of 21-28 days, depending on mix design, curing and drying conditions.
5. Maximum allowable Moisture Vapor Emission Rates (MVER) of 3.0 lbs./1000 sf./per 24 hr. period per ASTM F1869 (CaCl Testing).
6. Maximum allowable Moisture Vapor Emission Rates (MVER) of 75% RH as per ASTM F2170 (RH-Relative Humidity Testing).
7. Use VaporControl Primer moisture mitigation primer over concrete substrates that have MVER that exceed these limits.

2. TYPICAL PHYSICAL PROPERTIES at 75°F (24°C) with Clear Epoxy

Viscosity (mixed).....750 cps
Solids Content.....100%
Pot LifeApproximately 30 minutes
Tack-Free Time:
 50°F (10°C): 10-12 hrs. 75°F (24°C): 4-6 hrs. 90°F (32°C):2-4 hrs.

Compressive Strength ASTM D695 12,900 psi
 (Resin & Hardener)
Tensile Strength ASTM D638..... 4,400 psi
 (Resin & Hardener)
Adhesion ASTM D4541>400 psi
 (100% failure in concrete)
Water Absorption MIL-D-3134.....<1.0%
Abrasion Resistance ASTM D4060 0.09 gr
 (CS17, 1000gr load, 1000 cycles)
Flammability ASTM D635.....Self-Extinguishing
 Bonded to Concrete
VOC 3 g/L
Microbial Resistant ASTM G21 Passes Rating 1
Chemical Resistance.....(see Chemical Resistance Chart)

3. OVERVIEW OF INSTALLATION STEPS

Surface Preparation – All surfaces must be clean, sound, dry and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials. Prepare in accordance with SSPC SP 13.

Mixing Polymeric resin components must be mixed mechanically using a low-speed drill (300-450 rpm) until blended with a “Jiffy-type” or similar mixing paddle. Pre-mix Metallic Luster pigment thoroughly into Component A a minimum of 24 hours before mixing with component B. Empty entire contents of component A and component B into a clean mixing vessel. Mix for approximately 3 minutes keeping the mixing head fully immersed at all times. At least once when mixing, top to scrape down the sides and bottom of the pail to ensure thorough blending of both components. If not mixing full units, each component must be pre-mixed individually ensuring uniformity prior to use. Once completely mixed and in observance of pot life, dispense material immediately from the pail to the substrate. Never scrape resin from the inside walls of the mixing vessel directly onto the concrete floor.

Application –

Primer: When mixed pour out suitable primer in a ribbon across the concrete surface to receive broadcast. Using a flat squeegee, spread the material evenly left to right, and back-roll using only a 3/16” or 1/4” maximum nap roller. Allow the primer to dry until it is completely tack free.

Metallic Luster Base Coat: Pour out mixed Metallic Luster base coat in large ribbons across the tack-free primed concrete surface. While wearing spiked shoes, spread evenly with a 1/8” notched trowel to ensure consistent and complete coverage on the floor. When using multiple Metallic Luster colors be careful not to over-work, and allow individual colors to bleed and migrate into one another.

Optional Clear Coat: For optimal depth performance, and stain resistance it is strongly recommended to apply one or two clear finish coats over the completed Metallic Luster flooring system. Contact a local Dex-O-Tex representative or Technical Service for a recommendation based on service requirements and operating conditions.

System Description Sheet

Metallic Luster Metallic and Pearlescent Color System

FOR BEST RESULTS

- Always install a minimum 4' by 4' test area site mock up for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation.
 - Verify and download current versions of product description sheets (PDS), material safety data sheets (MSDS).
 - Protect materials at all times from excessive heat and cold, and pre-condition to room temperature as necessary.
 - Regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application rates are obtained.
 - Measure surface and ambient temperatures to ensure the material is only applied when temperatures are 50°F (10°C), and rising during placement and cure time.
- Always have a porcupine roller on hand in the event that bubbling or outgassing occurs.

4. PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and/or factories at addresses listed below. A network of Factory Trained Contractors are established in all major trading areas in the United States, Canada and various European, Latin American and Far East nations.

5. SKID RESISTANCE and CLEANABILITY

In general, the more aggressive the finished surface the greater the coefficient of friction and corresponding skid resistance, but the more difficult to clean. The smoother the finished texture the easier the surface is to clean, but there is a loss of skid resistant properties.

6. CLEANING

Cleaning and disinfecting compounds and cleaning techniques can affect the color, gloss, texture and performance of the system. As a precautionary step, Crossfield recommends that the end-user test their cleaning and disinfecting compounds on a sample or on a small, out of the way finished area, utilizing the intended cleaning technique prior to cleaning the entire surface area. If no deleterious effects are observed, the procedure can be continued. If the cleaning and disinfecting compounds or cleaning techniques damage the system, modification of the cleaning materials or techniques will be required. Contact Dex-O-Tex sales or technical service representative for additional information.

7. SPECIFICATION ASSISTANCE

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

8. CHEMICAL RESISTANCE

See Crossfield Products Corp's, Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the type of testing performed:

- ASTM C868 Standard Test Method for Chemical Resistance of Protective Linings
- ASTM C267 Standard Test Method for Chemical Resistance of Mortars, Grouts, and Monolithic Surfacing and Polymer Concretes
- ASTM D1308 Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- Crossfield Products Corp. Proprietary Testing

Crossfield recommends testing the product or system in accordance with intended end use.

9. TESTING

The technical data contained herein is the result of tests made in Crossfield's laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of

samples produced under dissimilar conditions may develop substantially different results.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



DEX-O-TEX PRODUCT LINE Crossfield Products Corp.

West Coast Office
3000 E. Harcourt Street
Rancho Dominguez, CA
90221
310-886-9100
310-886-9119 fax

East Coast Office
140 Valley Road
Roselle Park, NJ
07204
908-245-2800
908-245-0659 fax

www.dexotex.com