Eco-PJS™

Polyurea Joint Filler

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Division 9

Section - Resinous Flooring

PART 1 - GENERAL

1.01 Summary

A. A 100% solids, two-component, semi-rigid polyurea joint filler for concrete floors. Complies with L.A. Rule 66 and VOC/VOS Rules and Regulations.

1.02 Performance Requirements

A. See manufacturer's product bulletin for specific material and cured coating properties.

1.03 Submittals

A. Product Data: Submit manufacturer's product data, including physical properties, chemical resistance, surface preparation and application instructions.

B. Submit list of five projects similar in nature, which have been installed by applicator during the last five years, identified with project name, location, name of owner's representative, their phone number and date.

C. Submit manufacturer's standard warranty and applicator's warranty.

1.04 Quality Assurance

A. Applicator Qualifications:

1. A minimum of three years' experience in the application of coatings or resurfacers to concrete floors.
2. A minimum of ten jobs or 1,000,000 square feet of successful applications.

B. Pre-Application Meeting: Convene a pre-application meeting 2 weeks before the start of application of floor coating system. Require attendance of parties directly affecting work of this section, including the Contractor, Architect, Applicator and Manufacturer's Representative. Review the surface preparation, application, cleaning, protection and coordination with other work.

1.05 Delivery, Storage and Handling

A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Store materials in accordance with manufacturer's instructions.

1. Store materials in dry, enclosed area with adequate protection from moisture.
2. Keep containers sealed until ready for use.
3. Storage Temperature: 65°F (18°C) and 90°F (32°C).

1.06 Warranty

A. Written manufacturer's warranty covering materials only. Applicator to provide application warranty.

PART 2 - PRODUCTS

2.01 Materials

A. Resurfacer: Tennant Eco-PJS™ - Polyurea Joint Filler. A two-component polyurea.

1. Percent Solids, ASTM D2369
    1. Part A - 100%
    2. Part B - 100%
2. Volatile Organic Compound, ASTM D3960
    1. 0 lb/gal or 0 g/L
3. Tensile Strength, ASTM D638
    1. 1,183 psi or 8,157 K Pa

B. Tennant Coatings

PART 3 - EXECUTION

3.01 Examination

A. Examine concrete surface to receive floor coating system. Notify the Architect if surface is not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

B. Allow concrete substrate to cure a minimum of 30 days.

C. **CHECK FOR MOISTURE:** Concrete must be dry before application of this floor coating material. Concrete moisture testing must occur. Calcium chloride testing or in-situ relative humidity testing is recommended. Readings must be below 3 pounds per 1,000 square feet over a 24-hour period on the calcium chloride test or below 70% relative internal concrete humidity. Test methods can be purchased at www.astm.org, see ASTM F1869 or F2170, respectively or follow instructions from the suppliers of these tests.

NOTE: Although testing is critical, it is not a guarantee against future problems. This is especially true if there is no vapor barrier or the vapor barrier is not functioning properly and/or you suspect you may have concrete contamination from oils, chemical spills or excessive salts.

3.02 Preparation

A. Prepare surface in accordance with manufacturer's instructions.

1. Remove all laitance and loose material.
2. Remove all bond-inhibiting materials (waxes, oils, grease and the like) from the surfaces.
3. Vacuum clean to remove all fine dust and debris.
4. Make sure joint is clean and dry.

3.03 Application

A. Apply floor coating system in accordance with manufacturer's instructions.

1. Joint Filler: Eco-PJS™ -- Polyurea Joint Filler.
    1. Mix components together.
    2. Prefill bottom of joint with silica sand to control joint depth and hold up filler during cure.
    3. Premix each Part A and B separately and prior to pouring into dispensing units.
    4. Apply Eco-PJS with a pressurized plural meter dispenser. Set dispenser for a 1:1 mix ratio by volume.
    5. After 30 minutes and up to 4 hours after application, shave off excess. Refill underfilled joints within 2 hours. If more than 2 hours, abrade surface and remove dust before recoating.
    6. Allow joint filler to cure 30 minutes/foot traffic, 2 hours/vehicle traffic and 24 hours/heavy traffic at 75 degrees F (24 degrees C).
    7. Allow to cure 30 minutes to 2 hours before topcoating with a Tennant coating. ***NOTE:*** *See product bulletin for specific times/coatings.*

3.04 Protection

A. Close job site to traffic for a period of 24 hours after coating application

END OF SECTION