IsoFill 800DC – Concrete Crack Repair

IsoFill 800DC is a two-component urethane elastomer made to act as a crack filler or sealant primarily for use in concrete floors. This material provides exceptional adhesion characterics and fast cure times. It can be used under traditional floor coating in heavy traffic warehouse floor, chemical spill prone floor, under ceramic tile floors. Depending on the ambient temperature during application, this material can be flush shaved after 20 minutes and grinded after 25.

APPLICATIONS

- Concrete Crack Fill

PRODUCT ADVANTAGES

- 1:1 System by volume
- 100% Solids
- Can be dispensed via a Cartridge
- Chemical resistance
- Excellent Adhesion to Concrete
- Fast cure and dry time
- Zero VOCs

*Values given are not intended to be used in specific preparation

Component Properties	
Color - ISO	Light Yellow
Color - POL	Gray
Specific Gravity - 74°F, ISO	1.0 - 1.2
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Viscosity - ASTM D-2196 - 74°F, ISO	1000 - 3000 cps
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% Solids	100
Reactivity Profile	
Ratio by Weight - ISO:POL	1.08:1.00
Ratio by Volume - ISO:POL	1.00:1.00
Gel Time - 100 gram sample, 74°F	2.0 - 3.5 Minutes
Tack Free Time	7 - 15 Minutes
Typical Physical Properties	
Hardness - ASTM D2240 - Shore A	90 - Shore A
Tear Strength - ASTM D624, Die C	170 pli
Tensile Strength - ASTM D412	1300 psi
Elongation - ASTM D412	230 %

RECOMMENDED HANDLING INSTRUCTIONS

APPLICATION INSTRUCTIONS

Surface temperature must be 5 degree above dew point and no condensation is present on the surface. Surface application temperature may be range from 40F to 150F.

Step 1- Surface Preparation

Suggested tools: broom, dust pan, tarps, concrete saw & grinders, dust mask, gloves, shop vac, trash bags, rags.

1) New concrete: the concrete should be allowed to cure for a minimum of 30 days to ensure adequate adhesion. A slab cure of 60 to 90 days or longer will permit for greater concrete shrinkage and joint opening to lessen the incidence of joint filler separation.
2). Any moisture present in the cracks and the joins should be eliminated prior to installation.
3). For aged concrete: removal all existing joint sealer and joint backer.
4). Using a dustless concrete saw a dimond blade, saw the cracks or joint vertically to 90o angles to a minimum depth of 1 inch. The joint should be widened sightly to ensure adhesion to freshly opened concrete. Care should be taken not to adversely affect adhesion by burnishing the sides of the joints with a grinder. Saw laitance, dust, debris, spalls left over in the joint must be removed using a common shop-vacuum. Any oily or contaminated spots must be thoroughly cleaned or ground out.
5). No primer is needed.

Step 2- Installation

6). This product may be applied with catridge gun or plural component liquid pumping equipment. The use of a 1/2" diameter static with 30 or 32 elements is recommended for material dispensing and proper mix. The periodic ratio checks on powder dispensing units needs to be performed to ensure proper cure. Cartridges should be shaken aggressively to accomplish the redistribution of any settlement that may have occurred during storage. Material provided in pails should be thoroughly mixed before use.
7). Compressible backer rod may be used 2 inches down in construction joints or saw-cut joints exceeding 2" in depth only.
8). The material should be placed in the joint full depth, overfilled, let it cure for 30 minutes or longer prior to shaving level with floor.
9). We recommend testing various shave times to find the optimal shave, which results in a filler profile that is flushed with the concrete floor's surface, and free of any film from material overfill. If shave time is substantially delayed or if enviromental temperature is low, the shaving process may be more labored.
10). If the filler cure below the floor surface possibley due to settlement into the void at base of joint, remove top of 1/2 inch of filler abd re-apply the material. Grinding or polishing operation should be deferred for one hour or more after placement.

Step 3 Clean-up
11) Spills of unreacted components can be cleaned up with solvent, like MEK, acetone, isopropyl alcohol.
12). Cured spills can be removed via diamond grind.

STORAGE

SAFETY

-Refer to the product SDS for all relevant safety information.

Date Modified 1/28/2020