

Specialized Industrial Materials

Joint Fill 100%

Fast Set Polyurea Joint Filler for Control Joints and Random Cracks

Features

Non-Staining

Joint Fill 100% is formulated without extender oils. It will not stain concrete in normal conditions.

Non-Foaming

Joint Fill 100% is a pure polyurea polymer. It will not foam like other polyurethane or hybrid joint fillers.

Color Stability

Joint Fill 100% will resist discoloration over time when applied into interior floors.

LEED Compliant

Joint Fill 100% contains zero VOCs and is compliant with USGBC LEED green standards. It qualifies for *IEQ Credit 4.1: Low-Emitting Materials – Adhesives and Sealants*.

USDA Compliant

Joint Fill 100% is USDA compliant for areas handling meat and poultry.

Description

Joint Fill 100% is a fast setting, two-component self-leveling polyurea joint filler. It is 100% solids and contains zero VOCs.

Joint Fill 100% is formulated to protect industrial concrete floor joints from spalling when subjected to hard wheels and heavy machinery. It also has excellent chemical and abrasion resistance.

Joint Fill 100% meets the American Concrete Institute (302.1 Guide for Concrete Floor and Slab Construction) guidelines for floor joint fillers.

Technical Data

Property	Value
Hardness, Shore A	86 ± 2
Tensile Strength, psi	1650
Tear Strength, pli	390
Elongation, %	450
Application Temperature	
Substrate, °F	40 to 110
Material, °F	60 to 100
Gel Time, sec	60-80
Shave Time, min	20
Return to Service, hrs	1-3
Solids, %	100
VOC, g/L	0.0
Mix Ratio, pbv	1:1

22820 Interstate 45 North Bldg. 2N • Spring, TX 77373 • Phone: (281) 850-0301 Fax: (866)308-0009

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Material Preparation

Joint Fill 100% A and B Sides should be mixed thoroughly prior to use to ensure uniform color and chemical blend. Take care not to incorporate excess air during agitation. Material temperature should be 60°F or greater at time of installation.

Joint Fill 100% should be dispensed through a two component powered dispensing pump. Before loading materials into pump, ensure that pump tanks, lines, and dispenser are clean of any residual material or contaminants.

Joint Surface Preparation

Concrete should be cured as long as possible before beginning to fill joints. A minimum of 30 days is necessary to allow for adequate adhesion. The American Concrete Institute recommends waiting 90 days to minimize the risk of separation due to additional slab shrinkage. The floor must be allowed to reach the final ambient temperature for at least 7 days before filling joints (longer if possible for freezer applications).

Once the concrete has been allowed to adequately cure and reach ambient operating temperature, the joints must be cleaned and prepared. Joints must be free of dirt, dust, debris, sealants, moisture or any other contaminants. Specialized Industrial Materials recommends using a concrete saw with dust vacuum to expose clean concrete on all sides of the joint.

Joint Fill 100% should be applied directly into the joints without a primer or sealer.

Installation

Filler Depth

The purpose of filling joints is to protect them from spalling due to hard wheels and heavy loads. Joint Fill 100% can effectively transfer heavy loads when installed over a support base (concrete at the bottom of the joint) or is installed at a minimum depth of 2 inches.

Saw Cut Control Joints – Joint Fill 100% should be used to fill the full joint depth. In cases where the joint is cut deeper than 2 inches, a closed cell foam backer rod or sand may be used to seal the joint 2 inches deep. In all cases, installer may place up to ¼ inch of sand at bottom of joint to prevent material from seeping through. Never use a foam backer rod at less than 2 inches.

Construction/Formed Joints – Joint Fill 100% must be installed at a minimum of 2 inches deep. Installer may use a foam backer rod or sand to close off joint at 2 inches deep. If construction joints are saw cut, Joint Fill 100% should be installed to the saw cut depth, using foam backer rod or sand to close off joint beneath.

Dispensing

Joint Fill 100% should be dispensed through a two component powered dispensing pump, using a 3/8 inch static mixer with 32 elements. Joints should be filled from bottom to top by placing dispensing tip into the joint. If dispensing tip is too large, joints may be filled in two passes. Joint should be overfilled to ensure that a level surface can be achieved after shaving.

Once material has cured (typically 45-60 minutes), shave the excess material using a razor blade equipped scraper. The joint filler should allow the floor surface to be level and continuous. If the material is shaved too early, it may be concave in the joint. The load transfer ability of the joint filler will be diminished. Sand or rough the surface of the joint filler and apply another bead of Joint Fill 100% on top. Shave the excess to form a level surface.

Maintenance

If joint filler separates from the joint, fill the voids with more Joint Fill 100%.

Packaging

Joint Fill 100% is packaged in 10 gallon kits, containing 5 gallons A side and 5 gallons B side.

Colors

Standard color is medium gray.

For availability of custom colors, please call Specialized Industrial Materials customer service.

Storage

Joint Fill 100% should be stored in sealed containers between 60°F and 90°F. Shelf life is 12 months under normal conditions.

Safety

This product is for industrial use only. Avoid contact with eyes and skin. Be sure to read MSDS in its entirety before using Joint Fill 100%.

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