



Chemline 8185

Fast Set Polyurea Joint Filler for Control Joints and Random Cracks

Description

Chemline 8185 is a fast setting, two component self-leveling polyurea joint filler. **Chemline 8185** is formulated to protect industrial concrete floor joints from spalling under hard wheels and heavy machinery. It also has excellent chemical and abrasion resistance. Other top features of **Chemline 8185** include:

- ✓ **Non-Staining:** Formulated without oil extenders thus will not stain concrete in normal conditions
- ✓ **Non-foaming:** This polyurea polymer will not foam like other polyurethane or hybrid joint fillers
- ✓ **High Color Stability:** Resistant to discoloration over time on interior floors

Chemline 8185 contains zero VOCs and is compliant with USGBC LEED green standards. It qualifies for *IEQ credit 4.1: Low-Emitting Materials—Adhesives and Sealants*.

Packaging, Storage & Shelf Life

Chemline 8185 is packaged in 10 gallon kits, containing 5 gallons of A side and 5 gallons of B side. Both A and B-components are very stable mixtures and can be stored from 65-95°F. In storage, containers should be tightly closed since this material is moisture sensitive. With proper storage practices, the shelf life of **Chemline 8185** is 6 months or more.

The standard color is medium gray. For availability of custom colors, please call Chemline customer service at 314.664.2230.

Safety

Chemline 8185 is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. Be sure to read SDS in its entirety prior to use.

Technical Data

Property	Value
Hardness, Shore A	86 ± 2
Tensile strength	1,650 psi
Tear resistance	390 pli
Ultimate elongation	450 %
Solids	100 %
VOCs	0.0 g/L

Application Data

Property	Value
Substrate temperature	40-110 °F
Material temperature	60-100 °F
Gel time	60-80 seconds
Shave time	20 minutes
Return to service	1-3 hours
Mix ratio	1:1

*Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

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Material Processing

Chemline 8185 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.

Chemline 8185 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. Chemline recommends using a concrete saw with dust vacuum to expose clean concrete on all sides of the joint.

Chemline 8185 should be applied directly into the joints without a primer or sealer.

Maintenance

If joint filler separates from the joint, fill voids with more Chemline 8185.

Installation

Filler Depth

The purpose of filling joints is to protect them from spalling due to hard wheels and heavy loads. Chemline 8185 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 – Chemline 8185 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 – Chemline 8185 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, Chemline 8185 should be installed to the saw cut depth, using foam backer rod or sand to close off joint beneath.

Dispensing

Chemline 8185 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 Chemline 8185 on top. Shave the excess to form a level surface.

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