

Technical Data Sheet



3580

Crack and Joint Filler

PRODUCT DESCRIPTION

General Polymers 3580 Crack and Joint Filler is a two component, high solids general purpose concrete crack and joint filling compound. 3580 Crack and Joint Filler has a unique combination of hardness and flexibility which supports heavy loads while minimizing (reducing) chipping.

ADVANTAGES

- High solids
- Penetrates and fills without running
- Sufficiently rigid to support heavy loads at joint edges
- Flexible enough to absorb hard heavy wheeled traffic
- Good wear resistance
- Reduces stress cracking and telegraphing

USES

- Joint filler for heavy use in industrial floors
- Concrete crack filler and with proper priming, spalled concrete leveling patch

Typical Physical Properties

| | |
|--|------------------------|
| Color | Gray |
| VOC (Volatile Organic Content) EPA Method 24 SCAQMD Method 304 | Compliant Compliant |
| Mix Ratio A:B | 1:1 |
| Pot Life, 1 gallon mass @ 73°F | 20-30 mins. |
| Initial cure | 4-8 hrs |
| Open to traffic | 24-72 hrs |
| Elongation ASTM D 638 | 50-60% |
| Adhesion ASTM D 4541 | 180-230 psi |
| Hardness, Shore D | 50 ± 10 |
| Hardness, Shore A ASTM D 2240 | 80 ± 10 |
| Tensile Strength ASTM D 638 | 450-500 psi |
| Compressive Strength ASTM D 695 | 2,800 psi |

ASTM D = Resin only

SURFACE PREPARATION - CONCRETE

Control joints should be free of laitance, dirt and debris. All curing and sealing compounds should be removed. If there is any doubt about the installation procedures, contact the Technical Service Department prior to installation. Refer to Surface Preparation (Form G-1).

3580 Crack and Joint Filler should not be applied to "green" concrete (less than 30 days old, preferably 60 days). Joints must be water and frost free. DO NOT use backer rod. Fill cracks and joint bottoms with 1/8" - 1/4" of 20-30 mesh dry silica sand.

Installation

The following information is to be used as a guideline for the installation of the 3580 Crack and Joint Filler. Contact the Technical Service Department for assistance prior to starting project.

Application Information

| <u>Joint Size</u> | <u>Approximate Lineal Feet per Gallon</u> | <u>Joint Size</u> | <u>Approximate Lineal Feet per Gallon</u> |
|-------------------|---|-------------------|---|
| 1/8" x 3/4" | 200 | 3/16" x 2" | 50 |
| 1/8" x 1" | 150 | 1/4" x 3/4" | 100 |
| 1/8" x 1 1/4" | 125 | 1/4" x 1" | 80 |
| 1/8" x 1 1/2" | 100 | 1/4" x 1 1/4" | 60 |
| 1/8" x 1 3/4" | 85 | 1/4" x 1 1/2" | 50 |
| 1/8" x 2" | 75 | 1/4" x 1 3/4" | 45 |
| 3/16" x 3/4" | 135 | 1/4" x 2" | 40 |
| 3/16" x 1" | 100 | 3/8" x 1" | 50 |
| 3/16" x 1 1/4" | 85 | 1/2" x 1" | 40 |
| 3/16" x 1 1/2" | 70 | 3/4" x 1" | 25 |
| 3/16" x 1 3/4" | 60 | 1" x 1" | 20 |

Temperature

Throughout the application process, substrate temperature should be 50°F - 90°F. Substrate temperature must be at least 5°F above the dew point.

Application on concrete substrate should occur while concrete is cooling to avoid offgassing. The material should not be applied in direct sunlight, if possible.

Fill Coat

Mixing and Application

1. Premix 3580A (resin) and 3580B (hardener) separately, using a low speed drill and Jiffy blade. Mix for one minute and/or until uniform.
2. Add 1 part 3580A (resin) to 1 part 3580B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and/or until uniform. 3580 can be poured from plastic or wax cups. For best results, use closed barreled polyethylene caulking or gun kits.
3. 3580 should be applied within 1/4" of the top and allowed to settle for 15-30 minutes. A second application is to be flush with the floor making sure all low spots are filled. An alternate procedure is to overfill the joint leaving a crown which can be shaved flush with a warm razor knife.

Application Equipment

Bulk caulk gun or metered pump.

CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact the Technical Service Department.

Cleanup

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

Safety

Refer to the MSDS sheet before use. All applicable federal, state, local and particular plant safety guidelines must be followed during the handling and installation and cure of these materials. Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

Material Storage

Store materials in a temperature controlled environment (50°F - 90°F) and out of direct sunlight. Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. One year shelf life is expected for products stored between 50°F - 90°F.

Maintenance

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.

Shipping

- Destinations East of the Rocky Mountains are shipped F.O.B. Cincinnati, Ohio.
 - Destinations West of the Rocky Mountains are shipped F.O.B. Victorville, California.
- For specific information relating to international shipments, contact your local sales representative.

Disclaimer

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