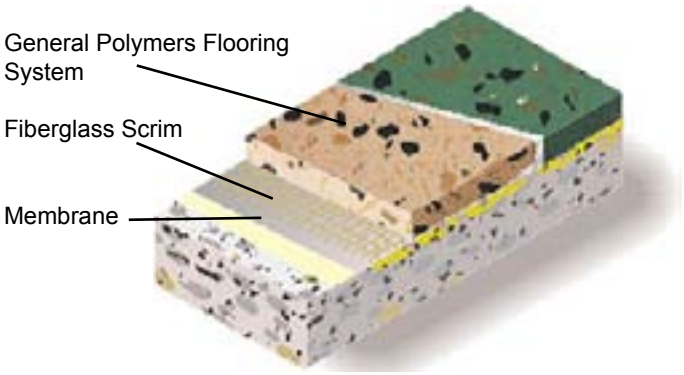
# FLEX-GRID® for Standard Systems

**General Polymers FLEX-GRID** is a crack isolation system for use beneath General Polymers standard flooring systems. It utilizes 3552 EPO-FLEX® FLEXIBLE MEMBRANE. which combines the toughness, adhesion and durability of epoxies with the degree of flexibility common to alternative systems. Flexibility is achieved without the use of plasticizers or other additives which can separate or migrate out of the epoxy complex as the material ages or is degraded due to environmental conditions.

Through the incorporation of fiberglass scrim into the FLEX-GRID system, a point of maximum tensile strength is created. This helps prevent substrate reflective cracking.




## Advantages

- Bridges hairline cracks, thereby aiding in suppression of cracks reflecting through the system due to substrate movement
- Excellent adhesion
- Compatible with epoxy systems
- Fiberglass scrim optional for maximum tensile strength
- Thermal shock resistant

## Uses

- Used under any of the General Polymers flooring systems to minimize reflective cracking from substrate movement.

## Typical Physical Properties

| | |
|---|---|
| Adhesion<br>ACI 503R | 300 psi<br>(concrete failure) |
| Hardness, Shore D<br>ASTM D 2240 | 23 |
| Tensile Strength<br>ASTM D 412 | 1,200 psi |
| Elongation @ Break<br>ASTM D 412 | 145% |
| Thermal Cycling<br>ASTM C 884 (24 hours, -21C to 25C) | No Cracking |
| Flammability | Self-extinguishing over concrete |

ASTM D = Resin only

## Installation

General Polymers materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the **FLEX-GRID**. Contact the Technical Service Department for assistance prior to application.

## Surface Preparation — General

General Polymers systems can be applied to a variety of substrates, if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc. Should there be any questions regarding a specific substrate or condition, please contact the Technical Service Department prior to starting the project. Refer to Surface Preparation (Form G-1).

## Surface Preparation — Concrete

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile depending upon system selected. Refer to Form G-1.

After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections. Protrusions shall be ground smooth while voids shall be filled with a system compatible filler. For recommendations, consult the Technical Service Department.

## Temperature

Throughout the application process, substrate temperature should be 60ºF – 90ºF. Substrate temperature must be at least 5ºF above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight, if possible. Protect material from freezing prior to installation.

# Application Information — Surface Prep Profile CSP 3-5

| VOC MIXED | | MATERIAL | MIX RATIO | THEORETICAL COVERAGE PER COAT CONCRETE | PACKAGING |
|---|---|---|---|---|---|
| <50 g/L | **Membrane** | 3552 | 1:1 | 40 sq. ft./gal | 2 or 10 gals |
| 0 | **Scrim** | FS38 4.4 oz. | | 475 sq. ft. / roll | 150 lin. ft / roll |
| Apply General Polymers Flooring System | | | | | |

## Primer

**Mixing and Application- *If priming is done to reduce outgassing , allow to cure overnight before topping***

1. Premix 3552A (resin) and 3552B (hardener) separately, using a low speed drill and Jiffy mixer. Mix for three minutes and until uniform, exercising caution not to whip air into the materials.

2. Add 1 part 3552A (resin) to 1 part 3552B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.

3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched red rubber squeegee to yield 40 mils WFT and cross roll with a 3/8" nap roller. Readings must be taken continuously during application with a wet mil gauge to verify material is being applied at the proper thickness. Allow to cure overnight at 73ºF surface temperature. Material cures slower at lower temperatures.

4. The optional scrim should be laid into the wet surface of the 3552 EPO-FLEX. **DO NOT** push the scrim to the substrate. The pattern of the scrim should be visible. Allow to cure overnight before standard system placement.

## Fiberglass Scrim (Optional)

**Application**

1. If optional fiberglass scrim is used, the scrim should be laid into the wet surface of the 3552 EPO-FLEX. **DO NOT** push the scrim to the substrate. The pattern of the scrim should be visible.

## Wearcourse

***See General Polymers System Bulletin***

## 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. 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 (50ºF – 90ºF) and out of direct sunlight.

Keep resins, hardeners, and solvents separated from each other and away from sources of ignition.

## 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

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

Consult www.generalpolymers.com to obtain the most recent Product Data information and Application instructions.

## Warranty

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams, NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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