Technical Data Sheet

General Polymers®
High performance floor systems

3552W
EPO-FLEX®
Flexible Wall Epoxy

PRODUCT DESCRIPTION

General Polymers 3552W EPO-FLEX FLEXIBLE WALL EPOXY is a high solids, flexible epoxy material which combines the toughness, adhesion and durability of epoxies with a degree of flexibility common to polyurethanes. 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. 3552W EPO-FLEX FLEXIBLE WALL EPOXY is used as a base coat for SANIFLEX® Interior Wall System.

ADVANTAGES

- Impact Resistant
- Bridges hairline cracks, aids in suppression of reflective cracking due to substrate movement associated with thermal movement.
- Flexible, yet tough
- VOC compliant allowing for installation in occupied facilities
- State of the art chemistry assures long-term flexibility
- Remains flexible at low temperatures

TYPICAL USES

3552W EPO-FLEX FLEXIBLE WALL EPOXY is recommended for use as a flexible matrix for wall system installations in pharmaceuticals, kitchens, animal research, health care, laboratories, and food processing facilities.

LIMITATIONS

- Substrate must be structurally sound, dry and free of bond inhibiting contaminants.
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 60F. Substrate temperature must be least 5F above the dew point (for lower temperature installation contact the Technical Service Department).
- When required, adequate ventilation shall be provided and proper clothing and respirators worn.
- Extinguish all sources of ignition during the entire installation cycle.
- **Strictly adhere to published coverage rates.**
- **Strictly adhere to mixing ratio.**

TYPICAL PHYSICAL PROPERTIES @ 73F

Mix Ratio A:B		1:1
Color		Off White
VOC (Volatile Organic Content)		
EPA Method 24		Compliant
SCAQMD Method 304		Compliant
Coverage @ 8-10 mils WFT		160-200 sq ft (Must be applied at two 10 mils coats)
Cure Time @ 6 mils	Dry to Touch	16 - 24 hours
	Recoat	24 hours min.
Pot Life 1 gallon mass		20-25 minutes
Adhesion ACI 503R		350 psi (100% concrete failure)
Hardness, Shore D ASTM D 2240		23
Tensile Strength ASTM D 412		1,200 psi
Elongation ASTM D 412		145%
Thermal Cycling ASTM C 884 (24 hours, -21C to 25C)		No Cracking
Flammability		Self-extinguishing over concrete

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. Read and follow the "Instructions for Concrete Surface Preparation" (Form G-1) for complete details.

STORAGE / APPLICATION

- MATERIAL DELIVERY AND STORAGE

Store materials in accordance instructions, with seals and labels intact and legible. 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 50ºF - 90ºF.

- APPLICATION INSTRUCTIONS

1. Premix 3552WA (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.

2. Add 1 part 3552WA (resin) to 1 part 3552B (hardener) by volume. Mix with low speed drill and Jiffy balde for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.

3. 3552W may be applied via 3/8" roller taped and solvent washed, or brush. Apply at a spread rate of 160-200 sq. ft. per gallon to yield 8-10 mils WFT evenly with no runs. Coverage will vary depending upon porosity of the substrate and surface texture. Roller application will leave a stipple finish, a final backroll with a short nap (1/4" or 3/16") roller or foam roller will reduce but not eliminate the stipple.

4. Allow to cure overnight.

NOTE: Epoxy materials may tend to blush at the surface especially in humid environments. After surface is primed and before installation of each subsequent coat, surface must be examined for blush (a whitish greasy film and/or low gloss). The blush must be completely removed prior to recoating using warm detergent water or through solvent wipe.

Epoxy materials will appear to be cured and dry to touch prior to full chemical cross linking. Allow epoxy to cure 2-3 days prior to exposure to water or other chemicals for best performance.

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.

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.

