



# GENERAL POLYMERS® FLOORS

# GP3745 SELF-LEVELING EPOXY

PART A  
PART B  
PART B

GP3745  
GP3745B01  
GP3745B02

SERIES  
STANDARD HARDENER  
FAST CURE HARDENER

Revised 01/12

## PRODUCT INFORMATION

### PRODUCT DESCRIPTION

**GP3745 SELF-LEVELING EPOXY** is a 100% solids, two-component, recoatable epoxy and binder resin. It may be used directly over primed substrates, or as a gloss seal coat over decorative slurry and mortar systems. GP3745 Self-Leveling Epoxy is extremely hard wearing, chemical resistant, impact and abrasion resistant.

### ADVANTAGES

- 100% solids / solvent free
- Impact and abrasion resistant
- Durable, easy to clean
- Chemical resistant
- No offensive solvent odor during installation
- Suitable for use in USDA inspected facilities
- Available with an antimicrobial agent
- Fast cure hardener available
- Tint bases can be tinted using Maxitoner @ 50% tint strength

### TYPICAL USES

**GP3745 SELF-LEVELING EPOXY** should be used in areas where maintenance of a high performance, aesthetically appealing and chemical resistant epoxy system is required. GP3745 Self-Leveling Epoxy is suited for use in clean rooms, laboratories, workshops, light assembly areas.

### LIMITATIONS

- Slab on grade requires vapor/moisture barrier.
- 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 50°F (10°C). Substrate temperature must be least 5°F (-15°C) above the dew point.
- Maximum dry surface temperature not to exceed 160°F (71°C).
- Strictly adhere to published coverage rates.
- Apply clear at only 10-15 mils (250-375 microns) maximum per coat.
- **Do NOT use fast cure hardener with tint bases.**

### 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.

### PRODUCT CHARACTERISTICS

<b>Finish:</b>	Gloss
<b>Color:</b>	Clear, Standard Colors Wide range of colors possible
<b>Volume Solids:</b>	100%, mixed
<b>Mix Ratio:</b>	2:1
<b>VOC (EPA Method 24):</b>	<100 g/L ; 0.83 lb/gal, mixed

### PRODUCT CHARACTERISTICS (CONT'D)

#### Recommended Spreading Rate per coat:

	Minimum	Maximum
<b>Wet mils (microns):</b>	<b>6.0 (150)</b>	<b>30.0 (750)</b>
<b>Coverage sq ft/gal (m<sup>2</sup>/L):</b>	<b>50 (1.3)</b>	<b>160 (4.0)</b>

#### Drying Schedule @ 10.0 mils (250 microns) wet:

@ 72°F (22°C)

##### Standard Hardener:

<b>To touch:</b>	6-12 hours minimum
<b>To recoat:</b>	8 hours minimum 72 hours maximum
<b>Foot traffic:</b>	24 hours minimum
<b>Heavy traffic:</b>	72 hours minimum
<b>Full cure:</b>	7 days

*If maximum recoat time is exceeded, abrade surface before recoating.*

*Drying time is temperature, humidity, and film thickness dependent.*

**Pot Life:** gallon mass 40 minutes @ 72°F (22°C)

#### Drying Schedule @ 10.0 mils (250 microns) wet:

@ 72°F (22°C)

##### Fast Cure Hardener:

<b>To touch:</b>	4 hours
<b>To recoat:</b>	8 hours minimum 72 hours maximum
<b>Foot traffic:</b>	10-12 hours
<b>Heavy traffic:</b>	24-48 hours
<b>Full cure:</b>	7 days

*If maximum recoat time is exceeded, abrade surface before recoating.*

*Drying time is temperature, humidity, and film thickness dependent.*

**Pot Life:** gallon mass 25 minutes @ 72°F (22°C)

<b>Shelf Life:</b>	Part A: 12 months, unopened
	Part B (Standard): 12 months, unopened
	Part B (Fast Cure): 18 months, unopened
	Store indoors at 40°F (4.5°C) to 100°F (38°C)

### PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060, CS17 wheel, 1000 cycles	100 mg loss
<b>Adhesion</b>	ACI 503R	300 psi concrete failure
<b>Flammability</b>		Self-extinguishing over concrete
<b>Flexural Strength</b>	ASTM D 790	~12,400 psi
<b>Hardness, Shore D</b>	ASTM D 2240	80
<b>Impact Resistance</b>	MIL-D-3134J	Direct, inch pound greater than 160, passes; Reverse, inch pound greater than 80, passes
<b>Tensile Strength</b>	ASTM D 638	~6,000 psi



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### 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. 18 months shelf life is expected for products stored between 40°F (4.5°C) - 100°F (38°C).

#### APPLICATION INSTRUCTIONS

1. Premix 3745A (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 2 parts 3745A (resin) to 1 part 3745B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.

3. Apply 3745 using a squeegee or trowel and back roll with a 3/8" nap roller at a spread rate of 50-160 square feet per gallon (1.3-4.0 meters squared per liter) to yield 6-30 mils (150-750 microns) WFT making sure of uniform coverage. Take care not to puddle materials and insure even coverage.

4. Allow to cure 24 hours minimum before opening to traffic and water exposure.

Note: 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.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

### 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.

### ORDERING INFORMATION

#### Packaging:

Part A: 3.3 gallon (12.5L) and 5 gallon (18.9L) containers  
Part B: 1.67 gallon (6.31L) and 5 gallon (18.9L) containers

Weight: 10.3 ± 0.2 lb/gal; 1.23 Kg/L mixed, may vary by color

### DISCLAIMER

The information and recommendations set forth in this Product Data Sheet 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 offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

### 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.