



Protective & Marine Coatings

GENERAL POLYMERS® 4700 INSTANT PATCH RESIN

PART A GP4700 SERIES
PART B GP4700B01 STANDARD HARDENER

Revised October 31, 2017

PRODUCT INFORMATION

PRODUCT DESCRIPTION

GENERAL POLYMERS 4700 INSTANT PATCH RESIN is a two component, multi-purpose urethane pot-hole, and concrete repair material. Material is mixed and cured at room temperature for patching holes, cracks, depressions and other surface imperfections on a variety of substrates. GENERAL POLYMERS 4700 INSTANT PATCH RESIN sets within 2 minutes and the repaired area can be placed in service or recoated within 30 minutes at normal room temperatures. In cold temperatures larger batches can be mixed and applied as a floor finish.

ADVANTAGES

- Extremely fast cure
- Easy to mix, 1:1 pourable components
- Non-shrinking
- Excellent wetting out characteristics
- Very low viscosity
- Traffic bearing hardness
- Cold temperature application and cure

TYPICAL USES

GENERAL POLYMERS 4700 INSTANT PATCH RESIN is designed for the repair and patching of floor surfaces when combined with a dry aggregate. The rapid cure and non-shrink properties of GENERAL POLYMERS 4700 INSTANT PATCH RESIN allows for immediate return to service or serves as a solid repair material when recoating the floor.

LIMITATIONS

- **NOT** for use in expansion joints.
- Only mix quantities to be used within 2 minutes.
- Substrate must be structurally sound, and free of bond inhibiting contaminants.
- Substrate and aggregate must be dry.

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive 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.

Clean and dry all surfaces prior to application of GENERAL POLYMERS 4700 INSTANT PATCH RESIN. Remove loose and unsound substrate.

PRODUCT CHARACTERISTICS

Color:	Cures to Opaque Gray
Mix Ratio:	1:1
Volume Solids:	58% ± 2%, mixed
Weight Solids:	63% ± 2%, mixed
VOC (EPA Method 24):	<400g/L; 3.4 lb/gal
Viscosity, mixed:	50 cps

PRODUCT CHARACTERISTICS (CONTINUED)

Recommended Spreading Rate per coat:

Wet mils (microns):	10 (250)
~Coverage sq ft/gal (m²/L):	160 (4.1)

Drying Schedule @ 10 mils (250 microns) wet:

	@ 73°F (23°C)
To touch:	15 minutes
To recoat:	30 minutes
Light traffic:	30 minutes minimum
Wheeled traffic:	1 hour minimum

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 2-3 minutes @ 73°F (23x°C)

Shelf Life:	Part A: 12 months, unopened
	Part B: 12 months, unopened

Store indoors at 50°F (10°C) to 90°F (32°C)

Flash Point: 146°F (63°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D 4060 CS-17Wheel 1,000 cycles	30-40 mgs lost
Adhesion	ACI 503R	300 psi
Application Temperature Range		0°F - 90°F (-18°C to 32°C)
Flammability		Self-extinguishing over concrete
Hardness, Shore D	ASTM D 2240	75/80
Resistance to Elevated Temperature	MIL-D-3134J	No slip or flow at required temperature of 158°F (70°C)
Tensile Strength	ASTM D 638	2,800 psi

APPLICATION INSTRUCTIONS

1. **Caution: Keep away from children! Keep away from flame or heat!** 4700 INSTANT PATCH RESIN contains isocyanates which are harmful if inhaled or swallowed. It will irritate the skin and cause sensitization and/or dermatitis. It is toxic. **Consult MSDS before using. Use in a well ventilated area. Use an approved respirator if TLV is exceeded.**

4700 INSTANT PATCH RESIN contains polyols which under normal conditions do not represent a hazard but can be harmful if swallowed. Prolonged or repeated skin contact may cause skin irritation. Prolonged or repeated skin contact may cause burns, sensitization and/or dermatitis.

Ratio: Mix 1 part 4700A and 1 part 4700B thoroughly for 30 seconds (make certain that material at the sides of container is stirred into the center). Working life of material is 2-3 minutes depending on ambient temperature and mixed mass size.



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Shallow Patches: Fill shallow areas (not deeper than ½ inch) to be patched with medium mesh dry sand (30 mesh or larger). Larger mesh sand may be used to facilitate resin penetration. Pour mixed 4700 into the sand allowing material to penetrate into the dry sand. Level the surface with a disposable straight edge.

Deep Patches: For patches greater than ½ inch in depth, combine 2 parts sand with 1 part mixed 4700 by volume. Mix until the sand is completely wetted. (Larger mesh sand requires slightly less resin for complete wetting.) Immediately place the mortar into the deep patch and smooth with a disposable straight edge

ORDERING INFORMATION

Packaging:	
Part A:	0.25 gallon (0.95L) and 1 gallon (3.78L) and 5 gallon (18.9L) containers
Part B:	0.25 gallon (0.95L) and 1 gallon (3.78L) and 5 gallon (18.9L) containers
Weight:	8.5 ± 0.2 lb/gal; 1.0 Kg/L

INSTRUCTIONS FOR TINTING

Tint Part A with Envirotoners at 150% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color. DO NOT EXCEED 8 ounces of colorant per gallon of Part A resin.

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.

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.