



Protective & Marine Coatings

GENERAL POLYMERS® 4090 FASTOP™ 12 BINDER RESIN

PART A
PART B
PART C
PART C

GP4090A01
GP4090B01
GP5095
GP5090

SERIES
HARDENER
AGGREGATES
AGGREGATES

Revised Feb. 3, 2016

PRODUCT INFORMATION

PRODUCT DESCRIPTION

GENERAL POLYMERS 4090 FASTOP 12 BINDER RESIN is a 2 part, water based resin used with specific aggregates to create Fastop 12TC and Fastop 12M floor systems. Reference the system bulletin application details.

ADVANTAGES

- Resistant to a wide range of chemicals

28 Day Exposure @ 72°F	Result
NE= No Effect	
Alcohol	NE
Ethylene Glycol	NE
Fats, Oils & Sugars	NE
Gasoline, Diesel & Kerosine	NE
Hydrochloric Acid (<35%)	Yellowing
Lactic Acid (Milk)	NE
Mineral Oils	NE
Most Organic Solvents	NE
Muriatic Acid	NE
Nitric Acid (<10%)	Yellowing
Nitric Acid (<30%)	Yellowing
PM Acetate	NE
Phosphoric Acid (<50%)	NE
Potassium Hydroxide (<50%)	NE
Sodium Hydroxide (<50%)	NE
Sulfuric Acid (>50%)	Yellowing
Water	NE
Xylene	NE

- Rapid cure and hardness development
- May be applied direct to prepared concrete
- Water-based
- Low temperature cure @ 40°F (4°C)
- Acceptable for use in USDA inspected facilities
- Impact and abrasion resistant
- Moisture insensitive

TYPICAL USES

GENERAL POLYMERS 4090 FASTOP 12 BINDER RESIN is a finish coat for all FasTop systems or direct to concrete as a non-skid coating.

LIMITATIONS

- Do not install in drafty conditions allowing air movement to pass over the coating while being installed.
- Do not premix Part A or Part B
- Substrate must be structurally sound and free of bond inhibiting contaminants.
- During installation and initial cure cycle, substrate and ambient air temperature must be at a minimum of 40°F(4°C) and 90°F (32°C) maximum. Substrate temperature must be at least 5°F (3°C) 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.
- Do not install in open areas during rain.
- Strictly adhere to published coverage rates.**

PRODUCT CHARACTERISTICS

Color:	Red, Gray, Yellow, Neutral
Mix Ratio: A:B:C	Pre-measured A and B components Plus 8 lbs aggregate (GP5095) TC = 1.25 gallons per kit
Viscosity, mixed:	600 cps
Volume Solids:	59% ± 2%, mixed
Weight Solids:	90% ± 2%, mixed
VOC (EPA Method 24):	<50 g/L mixed; 0.41 lb/gal

Recommended Spreading Rate per kit:

	Minimum	Maximum
Wet mils (microns):	6.0 (150)	30.0 (750)
Varies with application		
~Coverage sq ft/unit (m²/L):	65 (6.0)	300 (27.9)

Drying Schedule @ 6 mils (150 microns) wet:

	@ 73°F (23°C)
To touch:	4 hours
Light Foot Traffic:	6 hours
Heavy traffic:	12-18 hours minimum
Full Cure:	24 hours

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

Pot Life:	gallon mass	10-15 minutes @ 73°F (23°C)
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Shelf Life:	Part A: 12 months, unopened Part B: 6 months, unopened Store indoors at 50°F (10°C) to 90°F (32°C). >212°F (>100°C), ASTM D 93, mixed
Flash Point:	>212°F (>100°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance (with 5095 aggregate)	ASTM D 4060, CS17 wheel, 1000 cycles	20-30 mg loss
Adhesion	ACI 503R	350 psi concrete failure
Compressive Strength	ASTM C 579	>6,000 psi
Critical Radiant Flux	ASTM E 648	>1.0
Dry Heat Resistance	ASTM D 2485	300°F (149°C)
Flammability		Self-extinguishing over concrete
Flexural Strength	ASTM C 580	3,700 psi
Hardness, Shore D	ASTM D 2240	>80
Impact Resistance	MIL-D-3431, Sec 4.7.3	Withstands 16 ft/lbs without cracking, delamination of chipping
Shrinkage		Nil
Smoke Density	ASTM E 662	224-236
Tensile Strength	ASTM D 412	1,750 psi
Water Absorption		Nil



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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.

APPLICATION

See system bulletins for Fastop 12TC or Fastop 12M

ORDERING INFORMATION

Packaging:

Part A:	64 oz. in gallon container
Part B:	51.2 oz in gallon container
Part C:	5095 8 lbs. per bag
	5090 45lbs. per bag

Density of mixed components (A + B + aggregate):

Fastop 12TC	10.68 ± 0.2 lb/gal; 1.3 Kg/L
Fastop 12M	17.79 ± 0.2 lb/gal; 2.1 Kg/L

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.

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