Protective & Marine Coatings

GENERAL POLYMERS® 3741
NOVO-FLO SOLVENT / ACID RESISTANT COATING

PART A GP3741 SERIES
PART B GP3741B01 STANDARD HARDENER

Revised July 21, 2015

PRODUCT INFORMATION

PRODUCT DESCRIPTION

GENERAL POLYMERS 3741 NOVO-FLO SOLVENT / ACID RESISTANT COATING is a pigmented, high-build, high solids Novolac epoxy which resists vapor, splash, spillage or immersion to certain aggressive acids, alkalies and solvents. This material bonds aggressively to properly prepared and primed substrates, protecting the substrate from damaging chemicals.

ADVANTAGES

- Protects against certain aggressive acids, alkalies and solvents. Refer to the Chemical Resistance Guide.
- High bond strength
- Rapid cure
- Initial high gloss
- Moisture tolerant

TYPICAL USES

GENERAL POLYMERS 3741 NOVO-FLO SOLVENT / ACID RESISTANT COATING protects surfaces in petroleum refineries, chemical processing, water treatment, waste water treatment, power utilities, pulp and paper, food and beverage and pharmaceutical facilities.

LIMITATIONS

- Slab on grade requires vapor/moisture barrier.
- 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 50ºF (10ºC). Substrate temperature must be at least 5ºF (3ºC) 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.
- **Strictly adhere to published coverage rates.**

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

Color:	Steel Gray, Silver Gray, Classic Tile Red
Mix Ratio:	2:1
Volume Solids:	95% ± 2%, mixed
Weight Solids:	97% ± 2%, mixed
VOC (EPA Method 24):	<50 g/L mixed; 0.41 lb/gal
Viscosity, mixed:	1,000 cps

Recommended Spreading Rate per coat:

	Minimum		Maximum	
Wet mils (microns):	**10**	(250)	**20**	(500)
~Coverage sq ft/gal (m^2/L):	**80**	(7.4)	**160**	(4.1)

Drying Schedule @ 8 mils (200 microns) wet:

	@ 73°F (23ºC)
To touch:	8 hours
To recoat:	16 hours
Light traffic:	24 hours minimum
Full Cure:	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 @ 73°F (23ºC)

Shelf Life: Part A: 36 months, unopened
Part B (Standard): 36 months, unopened
Store indoors at 50°F (10°C) to 90°F (32°C)

Flash Point: >213°F (>100°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D4060, CS17 wheel, 1,000 cycles	100 mg loss
Adhesion	ACI 503R	300 psi concrete failiure
Flammability		Self-extinguishing over concrete
Hardness, Shore D	ASTM D 2240	80
Resistance to Elevated Temperatures	MIL-D-3134J	No slip or flow at required temperature of 158ºF (70ºC)

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APPLICATION

- **APPLICATION INSTRUCTIONS**

1. Premix 3741A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the material.

2. Add 2 parts 3741A (resin) to 1 part 3741B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform.

3. Apply 3741 using a 1/4" nap roller at a spread rate of 80-160 sq. ft. per gallon evenly, with no puddles making sure of uniform coverage. **Take care not to puddle materials and insure even coverage.**

4. Allow to cure 24 hours before opening to light foot 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.

ORDERING INFORMATION

Packaging:

Part A:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Part B:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Weight:	11.7 ± 0.2 lb/gal; 1.40 Kg/L mixed, may vary by color

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.