

Technical Data Sheet



3712

**Novo-Flo Solvent / Acid Resistant Binder Resin**

**PRODUCTION DESCRIPTION**

General Polymers 3712 NOVO-FLO SOLVENT / ACID RESISTANT BINDER RESIN utilizes a high solids novolac epoxy technology which resists aggressive acids, alkalis and solvents. These moisture tolerant materials bond aggressively to damp, properly prepared substrates, reducing costly down time.

3712 NOVO-FLO SOLVENT ACID RESISTANT BINDER RESIN may be applied as a binder resin for 1/8" slurry (Trafficote™ #12 system), or filled to make a 1/4" trowel applied horizontal mortar (TPM® #12 system).

**ADVANTAGES**

- Resists 98% sulfuric acid, 50% sodium hydroxide, concentrated hydrochloric acid and strong caustics, resulting in broad chemical resistance and environmental protection
- Good bond strength when applied directly to properly prepared substrates
- Moisture tolerant, cures under damp conditions
- Provides long-term protection against abrasion

**TYPICAL USES**

3712 NOVO-FLO SOLVENT / ACID RESISTANT BINDER RESIN is used to protect surfaces and/or provide positive primary and/or secondary containment in petroleum refineries, chemical processing, water treatment, waste water treatment, power utilities, pulp and paper, food and beverage and pharmaceutical facilities. It is also used in non-chemical resistant applications where quick project turn around is vital or the substrate cannot be completely dried prior to system application.

**LIMITATIONS**

- Slab on grade requires vapor/moisture barrier.
- Substrate must be structurally sound and free of bond inhibiting contaminants.
- During application and initial cure cycle substrate and ambient air temperature must be at a minimum of 50F. Substrate temperature must be least 5F above the dew point (for lower temperature application contact General Polymers).
- When required, adequate ventilation shall be provided and proper clothing and respirators worn.

**LIMITATIONS** (continued)

- Extinguish all sources of ignition during the entire application cycle.
- **Strictly adhere to published coverage rates.**
- Porous concrete substrates require a primer.

**TYPICAL PHYSICAL PROPERTIES @ 73F**

Mix Ratio A:B	4:1	
Color	Clear, Red, and Gray	
VOC (Volatile Organic Content)		
EPA Method 24	Compliant	
SCAQMD Method 304	Compliant	
Coverage	Varies by usage	
Pot Life, 1 gallon mass	50F	45 minutes
ASTM D 2471	73F	19 minutes
	90F	12 minutes
Cure Time	Dry to Touch	6 hours
	Recoat	8 hours min.
	Light Traffic	12 hours min.
	Full Cure	7 days
Abrasion Resistance	100 mgs lost	
ASTM D 4060, CS-17 Wheel, 1,000 Cycles		
Hardness, Shore D	80	
ASTM D 2240		

**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 50°F - 90°F.

### • APPLICATION INSTRUCTIONS

1. Premix 3712A (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 4 parts 3712A (1 gallon resin) to 1 part 3712B (1 quart hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform.
3. Coverage will vary depending upon usage.

**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. 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](http://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.

