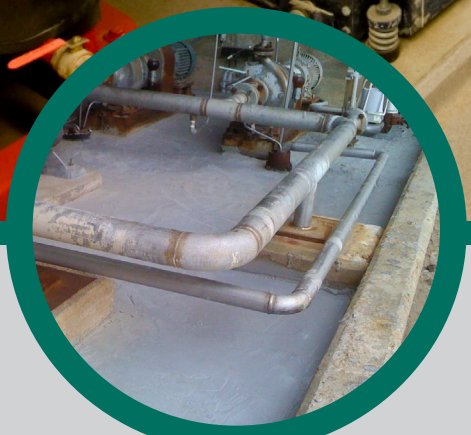
Novolac Systems



Chemical Resistant Floors

Available crack repair, joint sealants, primers, body coats, and mortars for use in these systems.

NPI
National Polymers Inc.

Novolac System

Typical Applications:

- Chemical Process Plants
- Petroleum Facilities
- Power Generation
- Pulp and Paper Mills
- Food Processing Facilities
- Mining Industry
- Gas Processing
- Sewage and Water Treatment
- Battery Changing Stations

System Benefits:

- Excellent chemical resistance
- Excellent solvent resistance
- Can be used for higher temperature service

In certain environments, the chemical resistance of standard epoxies and urethanes just won't cut it. Those situations are where you would turn to one of our novolac products, which offer substantially greater chemical resistance properties.

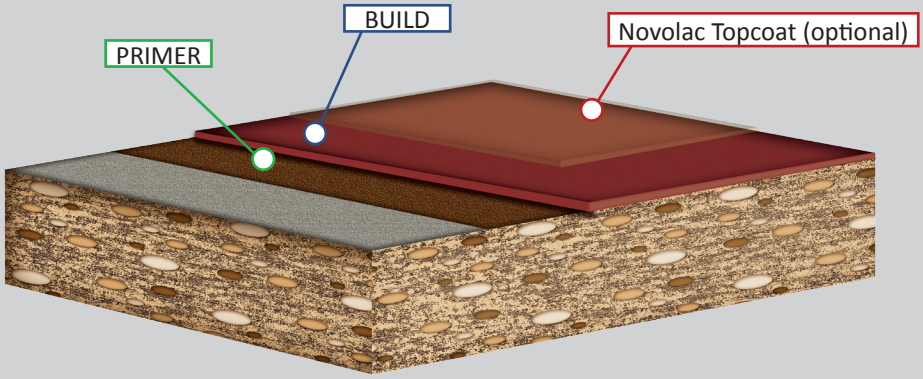
Novolac (secondary containment) systems enable mid-range to high performance chemical resistance with the ability to contain high concentrations of acids and even some chlorinated solvents. These systems are a great choice for areas that require a chemical resistant floor.

Refer to individual tech data for complete details.

STANDARD SYSTEM COMPONENTS			
Coat	Product	Mix	Coverage
Primer	257 Novolac Epoxy Primer	2:1	267 to 320 sf/gal
Body	253 Novolac Epoxy Coating	2:1	90 to 100 sf/gal

**Optional 2nd coat of 253 for topcoat*

PHYSICAL PROPERTIES		
Property	Result	Test Method
Adhesion	375 psi (concrete failure)	
Flexural Strength	9,610 psi	ASTM D790
Compressive Strength	9,900 psi	ASTM D695
Tensile Strength	6,680 psi	ASTM D638
Elongation	4.7%	
Impact Resistance	50 inch lbs. direct	
Abrasion Resistance	20 mg	CS-17 1000/500
Gloss	>40	Glossmeter
Application Temp.	60° to 90° F	



Other Products

Novolac Standard Colors

253 and 257 are available in the following colors. Other non-standard colors may be available with minimum quantity purchases.

Tile Red

Lt. Gray

Med. Gray

Colors are shown as close as possible. Due to screen and print limitations, you should consult an NPI representative for physical samples for the most accurate representation. Colors may vary from batch to batch and product to product.

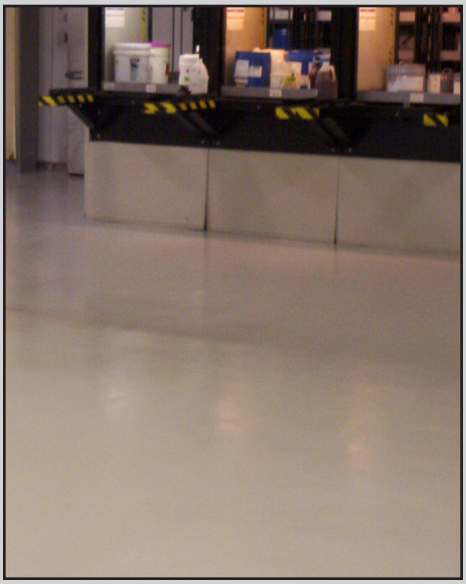
Other Novolac Products Available

Refer to individual tech data for complete details.

NOVOLAC CRACK FILLER/JOINT SEALANTS	
Product	Uses/Features
928, Novolac Joint Sealant	Ideal for chemical exposure areas
928HV, Novolac Joint Sealant, Vertical	Ideal for vertical applications
929, Novolac Crack Filler	Designed for shallow repairs in chemical exposure areas Vertical/Horizontal application

PRIMERS, INTERMEDIATE, GROUT COATS	
Product	Uses/Features
256, Chemical Resistant Novolac Primer	Clear primer for use in chemical exposure areas
259, Novolac Mortar Grout Coat	Designed for use in novolac mortar systems as a grout coat (pigmented)

MORTARS AND SELF LEVELERS	
Product	Uses/Features
256M, Chemical Resistant Mortar Patch Kit/Resur-facer	Mortar designed for chemical exposure areas Natural/Pigmented
253SL, Novolac Epoxy Self Leveling	Self-leveling epoxy designed for chemical exposure areas Pigmented



Chemical Resistant Chart

The following data is provided as a service of National Polymers, Inc. and is believed to be accurate. However this information is neither recommendations by NPI nor product specifications. NPI reserves the right to change or modify data as necessary.

	253	256	256M	257	258	928	928HV	929
ACETIC ACID 5%	D	D	D	D	D	D	D	D
ACETIC ACID 10%	B	C	C	B	B	C	C	C
ACETONE	C	C	C	C	C	C	C	C
AMMONIA	E	E	E	E	E	D	D	D
BUTANOL	E	E	E	E	E	D	D	D
ETHANOL	C	C	C	C	C	C	C	C
ETHYLENE GLYCOL	E	E	E	E	E	D	D	D
HYDROCHLORIC ACID 10%	D	D	D	D	D	D	D	D
HYDROCHOLRIC ACID 36%	D	D	D	D	D	C	C	C
METHYLENE CHLORIDE	A	A	A	A	A	A	A	A
METHYL ETHYL KETONE	C	C	C	C	C	A	A	A
NITRIC ACID 5%	E	E	E	E	E	D	D	D
NITRIC ACID 30%	C	C	C	C	C	C	C	C
PHOSPHORIC ACID 40%	D	D	D	D	D	C	C	C
SKYDROL	C	C	C	C	C	C	C	C
SODIUM HYDROXIDE 10%	E	E	E	E	E	D	D	D
SODIUM HYDROXIDE 50%	E	E	E	E	E	D	D	D
SULFURIC ACID 10%	E	E	E	E	E	D	D	D
SULFURIC ACID 30%	D	D	D	D	D	C	C	C
SULFURIC ACID 98%	C	C	C	C	C	B	B	B
1,1,1 TRICHLORETHANE	C	D	D	C	C	C	C	C
XYLENE	D	D	D	D	D	D	D	D

Rating Key:

- **A** Not recommended for exposure to this chemical
- **B** Short term exposure splash spill (recommended for exposure times not to exceed 2 hours)
- **C** Long term exposure splash spill (recommended for exposure not to exceed a normal 8-10 hour work shift without cleanup)
- **D** Short term immersion (recommended for exposure not to exceed 72 hours)
- **E** Long term immersion (recommended for continuous exposure to chemical. Life expectancy is variable. Long term exposures such as a tank linings and trenches fall under this rating.)
- **T** This rating is used to depict chemicals that do not have any service data; but based on technical knowledge are suitable for exposure to this chemical

6/2019