



TECHNICAL DATA SHEET – NOVOREZ® 360+

Revised: 4/2018

DESCRIPTION

NovoRez 360+ is a 100% solids, two component epoxy novolac coating suited for highly aggressive chemical environments.

TYPICAL APPLICATION

PRIMER	PolySpec 100EX @ 5–7 mils
BASECOAT	Concrete: NovoRez 351 @ 15-20 mils Steel: NovoRez 353 BC @ 15-20 mils
TOPCOAT	NovoRez 360+ @ 15-20 mils
OPTIONS	Non-Skid Grit @ 0.50 lbs/ft ²

PERFORMANCE DATA

COMPRESSIVE STRENGTH (ASTM C - 579)	22,000 psi
TENSILE STRENGTH (ASTM D - 638)	4,000 psi
ELONGATION (ASTM D - 638)	<1%
FLEXURAL STRENGTH (ASTM C - 580)	4,300 psi
BOND STRENGTH (ASTM D - 4541) (CONCRETE FAILURE)	425 psi
ABRASION RESISTANCE (ASTM D - 4060)	70 mg
OPERATING TEMPERATURE, MAXIMUM, DRY:	300°F
WET:	Dependent on chemical exposure
VOC	0.0 lb/gal; 0.0 gm/L
VOLUME SOLIDS	100%

BENEFITS

- Resists wide range of the most aggressive solvents and chemicals including 75% sulfuric acid, benzene, crude oil, organic and inorganic acids, alkalis and salts
- 100% solids, zero VOC formulation
- No heating, baking or post curing required to achieve chemical resistance
- Lower viscosity than standard novolacs

RECOMMENDED USES

- Chemical process floors
- Secondary containment
- Pump pedestals
- Aircraft paint stripping areas
- Trenches & sumps
- Tank linings; primary containment

GENERIC DESCRIPTION

Epoxy Novolac

STANDARD COLORS: Medium Gray

PACKAGING: 3-Gallon Unit

MIX RATIO: 3.46R:1H
(Partial kit mixing not recommended)

COVERAGE: 80 ft² / gallon @ 20 mils

NOVOREZ® 360+

CONCRETE AND STEEL COATING, SOLVENT RESISTANT

STORAGE & INSTALLATION

STORAGE ENVIRONMENT	Dry area, 65-80 °F
APPLICATION TEMPERATURE, AMBIENT	50-95°F
APPLICATION TEMPERATURE, SUBSTRATE	Minimum 5°F above dew point
SHELF LIFE	1 year
POT LIFE, @ 77°F	25 minutes
FOOT TRAFFIC, @ 77°F	16 hours
FULL SERVICE, @ 77°F	7 days

SURFACE TEMPERATURE

	65°F	75°F	90°F
RECOAT (MIN)	8 hours	5 hours	2 hours
RECOAT (MAX)	24 hours	16 hours	6 hours

CONSIDERATIONS & LIMITATIONS

1. ITW Polymers Sealants North America, Inc. recommends the addition of non-skid grit for floors, secondary containment and process areas subjected to foot traffic and forklift traffic. For heavy traffic areas, trenches and sumps, ITW Polymers Sealants North America, Inc. recommends NovoRez 360+ as a topcoat over the PermaRez 348 system.
2. For best results, work area should be humidity and temperature controlled.
3. Protect area from direct sunlight during application and from sudden temperature changes within 24 hours of application.
4. Do not thin with solvents unless advised to do so by ITW Polymers Sealants North America, Inc.
5. Confirm product performance in specific chemical environment prior to use.
6. Prepare substrate according to "Surface Preparation" portion of this document.
7. Always use protective clothing, gloves and goggles during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Safety Data Sheet for detailed safety precautions.
8. For industrial/commercial use. Installation by trained personnel only.

SURFACE PREPARATION

CONCRETE: Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Concrete should have a minimum surface tensile strength of at least 300 PSI per ASTM D-4541.
- Surface profile shall be CSP-3 to CSP-5 meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 60-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- Moisture vapor transmission should be 3 pounds or less per 1,000 square feet over a 24 hour time period, as confirmed through a calcium chloride test, as per ASTM E-1907. Quantitative relative humidity (RH) testing, ASTM F-2170, should confirm concrete RH results <75%.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.
- Outgassing may occur due to the porosity of some concrete surfaces. To reduce the effect of outgassing, the primer and coating should be applied when the temperature of the concrete substrate is dropping. This usually occurs in the evening; however, the concrete substrate temperature should be measured with a surface thermometer for verification. Double priming will greatly reduce the effects of outgassing by additionally filling the pores in the concrete.

STEEL: For immersion service, "White Metal" abrasive blast with an anchor profile of 2-4 mils in accordance with Steel Structures Painting Council Specification SP-5-63 or NACE

No. 1 is required. For splash and spillage exposure, "Near White" SP-10-63 or NACE No. 2 is required.

Refer to PolySpec Surface Preparation Guidelines for more details.

INSTALLATION STEPS

1. Prime surface with PolySpec 100EX Primer for concrete. See data sheets for application details.
2. Apply one Basecoat of NovoRez 351 for concrete or NovoRez 353 Basecoat for steel. See data sheet for application details.
NOTE: NovoRez 351/353BC is used as the basecoat because it has a longer recoat window than the NovoRez 360+.
3. Component A Resin should be premixed 2-3 minutes prior to using due to possible pigment settling that may occur during transportation and storage.
NOTE: Do not overmix, beyond 2-3 minutes. Product will become increasingly viscous if overmixed.
4. Pour Component B Hardener into the Component A Resin pail and mix 2-3 minutes with a mechanical jiffy-type mixer operated at low speed until a uniform blend is attained. Scrape the side of the pail to ensure the entire product has been properly mixed; any unmixed material left on the side of the pail will not cure.
NOTE: Do not turn the pail upside down and allow to drain onto substrate.
5. Apply by squeegee and back-roll. Move quickly and empty contents of pail onto surface as soon as possible to provide maximum working time. Material left in the pail will generate heat and have a reduced pot life.
NOTE: Do not exceed recommended application thickness; doing so will result in stress build-up within the coating, resulting in cracking and delamination.
6. Follow application with a spiked plastic roller to remove entrapped air.
7. For secondary containment applications with a steel substrate use the NovoRez 353 Basecoat as the primer coat then topcoat with NovoRez 360+.
8. **OPTIONAL STEP: NON-SKID COATING** When applied as a non-skid coating, broadcast clean, dry 20/40-mesh sand or aluminum oxide aggregate into wet resin. Allow coating to cure. A full broadcast to refusal will produce the most consistent and durable system. Brush off excess grit before applying second coat.
NOTE: Broadcast grit into the wet basecoat. Do not broadcast into the prime coat. After the first coat has become slightly tack free (within approximately 4 hours @ 70°F), apply an additional coat of resin/hardener mixture according to Step 4.
NOTE: If more than 24 hours have elapsed or the basecoat becomes glossy and/or hard to the touch, a light sanding followed by a wipe with a 50:50 mixture of water and isopropanol will be necessary before applying the second coat. Allow the solvent to flash before applying coating.

3.46R:1H / DOC NR360+-TDS

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