

## DESCRIPTION

NovoRez 360 is a 100% solids, two component polymer coating suited for concrete substrates in highly aggressive chemical environments.

## TYPICAL APPLICATION

• Primer	PolySpec 300EX @ 5–7 mils
• Basecoat	NovoRez 360 @ 20 mils
• Topcoat	NovoRez 360 @ 20 mils
• Options	Non-Skid Grit @ 0.50 lbs/ft <sup>2</sup> Woven Roving (10 oz.) Fabric Reinforcement

## 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
VOC .....	0.0 lb/gal; 0.0 gm/L
Volume Solids .....	100%

## 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.....	15 minutes
Foot Traffic, @ 77°F.....	16 hours
Full Service, @ 77°F .....	7 days

*Material cures more slowly at cooler temperatures, and working time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to 65°F to 80°F prior to mixing and application to improve workability and avoid shortened pot life. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

## CONSIDERATIONS & LIMITATIONS

1. PolySpec 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, PolySpec 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. This product is not recommended as a tank lining.
5. Do not thin with solvents unless advised to do so by PolySpec.
6. Confirm product performance in specific chemical environment prior to use.
7. Prepare substrate according to “Surface Preparation” portion of this document.
8. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab.
9. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
10. For industrial/commercial use. Installation by trained personnel only.

# NovoRez<sup>®</sup> 360

TECHNICAL DATA SHEET

## Concrete Coating, Solvent Resistant

## BENEFITS

- Resists wide range of the most aggressive solvents and chemicals including perchloroethylene, tetrahydrofuran, pyridine, organic and inorganic acids, alkalies and salts
- 100% solids, zero VOC formulation
- No heating, baking or post curing required to achieve chemical resistance

## RECOMMENDED USES

- Chemical Process floors
- Secondary containment
- Pump pedestals
- Aircraft paint stripping areas
- Trenches & sumps

## GENERIC DESCRIPTION

Novolac Phenolic

## STANDARD COLORS

Light Gray, Tile Red

Additional colors available upon request. Non-stocking colors may be subject to additional lead time, minimum order requirements, and a slight premium.

## PACKAGING

3-Gallon Unit

## COVERAGE

80 ft<sup>2</sup> / gallon @ 20 mils

## 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.*

**Refer to PolySpec Surface Preparation Guidelines for more details.**

## INSTALLATION STEPS

1. Prime surface with PolySpec 300EX Primer. See data sheet for application details.
2. Component A Resin should be premixed prior to using due to possible pigment settling that may occur during transportation and storage.
3. Pour Component B Hardener into the Component A Resin pail and mix 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 overmix. Product will become increasingly viscous if overmixed.*

*NOTE: Do not turn the pail upside down and allow to drain onto substrate.*

4. 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.*

5. Follow application with a spiked plastic roller to remove entrapped air.

6. OPTIONAL STEP: FABRIC REINFORCED COATING

When applied as a fabric reinforced coating, immediately lay the reinforcement fabric into the basecoat and press out all air pockets with a dry paint roller. Saturate the reinforcement with a coat of catalyzed resin. Roll out saturant coat until the whiteness of the reinforcement disappears.

After the saturated basecoat has dried, grind down any burrs that have appeared on the surface.

7. 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 to dry. 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 basecoat of NovoRez 360. Do not broadcast into the prime coat.*

8. 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 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.*

9. For best results, clean tools and equipment with PolySpec® All Purpose Cleaner, a nonflammable and non-evaporating cleaner. Always wear gloves when using this product.

4.3R:1H / DOC NR360-TDS

Rev 07/05

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