



COVING RESIN SERIES N283

PRODUCT PROFILE

GENERIC DESCRIPTION	Modified Polyamine Epoxy
COMMON USAGE	A clear, thixotropic binder resin. Series N283 is designed to be used in all phases of cove building or vertical trowel applications (priming, base coat, and topcoat) and it can also be used for concrete repair. Note: When using Series N283 for building cove or troweled wall applications an aggregate similar to 30/50 mesh silica sand, Series 222 or 223 Quartz must be used. Has excellent adhesion, good chemical resistance, repairs concrete, and can be applied up to 1/4" without sagging.
COLORS	Supplied as a clear coat. May be field tinted with Series 820 in 16 StrataShield colors. Contact your Tnemec representative for additional information. Decorative Quartz is available in 12 standard colors, refer to the StrataShield Decorative Quartz Color card for more information. Custom colors are also available. Note: Epoxies chalk and yellow with age, extended exposure to UV, and artificial lighting. Lack of ventilation, incomplete mixing, miscatalyzation, or the use of heaters that emit carbon dioxide and carbon monoxide during application and initial stages of curing may cause amine blush, possibly affecting adhesion of subsequent topcoats.
FINISH	Gloss

COATING SYSTEM

PRIMERS	Self-priming or Series 201, N222, 233, 237, 238. Note: Series N283 can be bulked with fumed silica or silica sand for larger, deeper cracks.
TOPCOATS	Series N222, 237, 247, 248, 256, 257, 280, 280FC, 281, 282, N284, N285, V290, 296, 297. Note: If Series 247, 248, V290, 296, or 297 is selected for the finish coat, an intermediate coat of required.

SURFACE PREPARATION

CONCRETE	<p>Prepare surfaces by method suitable for exposure and service. Refer to the appropriate primer data sheet for specific recommendations.</p> <p>Allow new poured-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Verify concrete dryness in accordance with ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (moisture vapor transmission should not exceed three pounds per 1,000 square feet in a 24 hour period), F 2170 "Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes" (relative humidity should not exceed 80%), or D 4263 "Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method" (no moisture present). Note: The testing listed above cannot guarantee avoidance of future moisture related problems particularly with existing concrete slabs. This is especially true if the use of an under slab moisture vapor barrier cannot be confirmed or concrete contamination from oils, chemical spills, unreacted silicates, chlorides or Alkali Silica Reaction (ASR) is suspected.</p> <p>Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide a minimum ICRI-CSP 3 or greater surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer. Note: For moisture content exceeding 3 lbs per 1,000 sq ft or relative humidity in excess of 80%, Series 208 or 241 may be substituted for the primer. Refer to the Series 208 or 241 product data sheet for more information.</p>
ALL SURFACES	Must be clean, dry and free of oil, grease and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS	100% (mixed)
RECOMMENDED DFT	Varies with application. Do not exceed 16 mils (405 microns) when used as a topcoat.

CURING TIME	Temperature	To Recoat	To Place in Service
	75°F (24°C)	12-72 hours	24 hours

Note: If more than 72 hours have elapsed between coats, the coated surface must be mechanically abraded before topcoating. Curing time varies with surface temperature, air movement, humidity, and film thickness.

VOLATILE ORGANIC COMPOUNDS	Unthinned: 0.17 lbs/gallon (20 grams/litre)
THEORETICAL COVERAGE	1,604 mil sq ft/gal (36.2 m ² /L at 25 microns). See APPLICATION for coverage rates.
NUMBER OF COMPONENTS	Two: Part A and Part B
MIXING RATIO	By volume: two (Part A) to one (Part B)

PACKAGING	Part A	Part B	When Mixed Yield
Large Kit	2-5 gallon pails	1-5 gallon pail	15 gallons (56.8 L)
Small Kit	1-3.5 gallon pail (partially filled)	1-1 gallon can	3 gallons (11.4 L)

NET WEIGHT PER GALLON	9.27 ± 0.25 lbs (4.20 ± 0.11 kg) (mixed)
STORAGE TEMPERATURE	Minimum 40°F (4°C) Maximum 90°F (32°C) Prior to application, the material temperature should be between 70°F and 90°F (21°C and 32°C).
TEMPERATURE RESISTANCE	(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)
SHELF LIFE	12 months at recommended storage temperatures.
FLASH POINT - SETA	>230°F (110°C)

COVING RESIN | SERIES N283

HEALTH & SAFETY

This product contains chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.
Keep out of the reach of children.

APPLICATION

COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)
Topcoat for Base †	12.0-16.0 (305-405)	12.0-16.0 (305-405)	100-134 (9.3-12.4)

† Varies with application. Allow for surface irregularities and waste. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below the minimum or above the maximum recommended dry mil thickness may adversely affect coating performance.

MIXING

Use a variable-speed drill with a PS Jiffy blade. Slowly mix 2 Part A components, and while under agitation, add 1 Part B component and mix for a minimum of two minutes. Ensure that all Part B is blended with Part A by scraping the pail walls with a flexible spatula.

Cove Mortar Application: A small mix of cove mortar consisting of 16 oz. Part A component mixed with 8 oz. Part B component. Add 5 to 8 quarts of aggregate (30/50 mesh silica sand, Series 222 Quartz, or Series 223 Quartz). The spread rate is approximately 20 to 25 lineal feet per mix on a 4-inch cove with a 1-inch radius.

Colorant: Series 820 field-applied colorants are available in quart and gallon containers from Tnemec in 16 StrataShield colors and certain custom colors. Colorants should be added at 4 oz. to 8 oz. per gallon of mixed clear liquids. **Note:** Color consistency and hiding may vary based on the color selected and the amount of colorant used.

THINNING

Normally not required.

POT LIFE

25 to 30 minutes at 75°F (24°C)
 Material temperatures above 90°F (32°C) will significantly reduce the pot life.

APPLICATION EQUIPMENT

Trowel, coving trowel, margin trowel.

SURFACE TEMPERATURE

Minimum of 55°F (13°C), optimum 65°F to 80°F (18°F to 27°C), maximum of 90°F (32°C). The substrate temperature should be at least 5°F (3°C) above the dew point. To avoid outgassing, concrete temperature should be stabilized or in a descending temperature mode. Material should not be applied in direct sunlight.

MATERIAL TEMPERATURE

For optimum application, handling and performance, the material temperature during application should be between 70°F and 90°F (21°C and 32°C). Temperature will affect the workability. Cool temperatures increase viscosity and decrease workability. Warm temperatures will decrease viscosity and shorten pot life.

CLEANUP

Flush and clean all equipment immediately after use with xylene or MEK.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Tnemec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Tnemec Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Tnemec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.