Durex® Epotel 100 Novolac

Chemical-Resistant Epoxy Floor Coating

Description

Durex® Epotel 100 Novolac Chemical-Resistant Epoxy Floor Coating is a two-component, solvent-free (100% solids), high-performance epoxy coating. It is specially formulated to perform as a resilient industrial epoxy floor coating with outstanding chemical resistance.

Uses

Durex® Epotel 100 Novolac Chemical-Resistant Epoxy Floor Coating is used for protecting concrete floors in areas that demand a high level of chemical resistance.

Ideal For

- Heavy-duty industrial floors, warehouses, labs and production areas in chemical, pharmaceutical and food processing plants
- Water treatment plants
- Refineries, petrochemical complexes and secondary containment

Features

- Outstanding solvent-, stain- and chemical-resistance properties
- Self-leveling and seamless
- Excellent hardness
- Non-flammable
- Fast-curing properties and excellent adhesion
- Odourless, solvent-free; blush resistance and high-gloss properties
- Resistance to heat

TECHNICAL DATA

PHYSICAL PROPERTIES	
Colour	Clear and Pigmented
Resin Type	Novolac epoxy
Coverage	4 m^2/L (160 ft^2/gal) @ 10 mils DFT ***Note***: 2 coats recommended for best results
Mix Ratio **Part A (Resin):Part B (Catalyst)**	2:1 by volume 4:1 by volume (fast cure)
Cure Time @ 23°C (75°F), 55% RH	To touch: 4.5 hours Light traffic: 15 hours Fully cured: 5 days
Recommended Film Thickness	20 mils
Pot Life @ 23°C (75°F)	20 - 25 minutes
Reducer/Clean-up	Lacquer thinner or xylene

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Percent Solids	ASTM D7232-06	100% (vol.)
Viscosity (Brookfield) 23°C (75°F), A+B	ASTM D2196	1,200-2,000 cps
V.O.C.	ASTM D3960-05	Zero
Specific Gravity (Part A + B)	ASTM D333	1.07-1.45 ± 0.01 g/L 8.90-12.00 ± 0.1 lb/gal
Compressive Strength	ASTM 695-85	11,700 psi
Tensile Strength	ASTM 695-85	9,500 psi
Tensile Modulus	ASTM D638-86	474 psi
Elongation	ASTM D638-86	4.8%
Flexural Modulus	ASTM D790-86	525 psi
Abrasion Resistance	ASTM D4060-90	0.033
Mar Resistance	ASTM D5178-91	1.5 kg
60° Specular Gloss		>100%
Shore D Hardness	ASTM D2240	85

Packaging

Durex® Epotel 100 Novolac Chemical-Resistant Epoxy Floor Coating is packaged in 56.7 (15 gal), 18.9 L (5 gal) and 3.78 L (1 gal) kits. This product is available in multiple standard colours. Custom colour matching can also be attained at an additional cost. Please refer to the *Durex® Colour Selection Guide* for all available colour options.

Storage Conditions

Store Durex® Epotel 100 Novolac Chemical-Resistant Epoxy Floor Coating in a dry, vented, waterproof location, stacked off the ground, out of direct sunlight and other detrimental conditions. Store liquid materials in ambient temperatures above 10 degrees C and below 35 degrees C. **KEEP FROM FREEZING**.

Surface Preparation

Surfaces to be coated are to be prepared to ICRI CSP 3. For best results, the surface shall be shot blasted free of laitance, dust, debris or other materials deleterious to adhesion. New concrete and masonry mortar shall be allowed to cure for a minimum of 28 days and to achieve a compressive strength of at least 25 MPa (3,625 psi) before coating. Maintain temperature in work areas to receive floor coating at a minimum of 10 degrees C for at least 24 hours before, during and after applications, and until coatings have fully cured. Maintain a dust-free environment for the duration of work. Erect suitable barriers to prevent through traffic or other trades from entering working area during installation of floor coating and protect adjacent surfaces from damage.

Mixing Instructions

Durex® Epotel 100 Novolac is supplied as a kit based on mixing ratio. Mixing shall be carried out in a clean, rust-free container, and mixed by a power drill at 400-500 rpm maximum. Mix two (2) parts by volume of Part A epoxy resin with one (1) part by volume of Part B amine binder. Mix for at least two (2) minutes. Durex® Epotel 100 Novolac must be applied immediately for best working time and results.

Application

Prepare a test patch to verify the effectiveness of the cleaning process, and to check product adhesion to the surface. Use a good-quality synthetic brush (75-100 mm) to paint floor edges. Then use a lint-free 12.7 mm (1/2 in.) nap roller cover and 230 mm (9 in.) frame to apply an even coat of Durex® Epotel 100 Novolac at a rate of 160 square feet per gallon. Maintain a wet edge to prevent cold joints and gloss differences. Apply multiple coats of Durex® Epotel 100 Novolac for increased chemical resistance.

Clean-up

Wash all tools and equipment immediately after use with warm water and mild detergent.

Health and Safety

Use under well-ventilated conditions with appropriate respirator approved for organic vapours and rubber gloves when handling the product. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water and seek medical attention if irritation occurs. Harmful if swallowed. Do not induce vomiting. Drink 1-2 glasses of water or milk. Keep product out of reach of children. Read published Material Safety Data Sheet for additional information.

Warranty

Durabond warrants this product is free of manufacturing defects, and will replace at no charge, provided it has been applied within 12 months of purchase, it has been installed for uses suitable for this product and in accordance with the manufacturer's instructions.

Technical Services

Technical support is available upon request at info@durabond.com. For the latest version of this data sheet, please visit our website at www.durabond.com, call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Technical Coatings Ltd. sales representative.