



Epoxy.com Product #1800

Fast Setting Brushable Polyurea Coating

DESCRIPTION

Epoxy.com **PRODUCT #1800 Fast Setting Brushable Polyurea Coating** is a two component brushable aliphatic polyurea. It cures in minutes to provide a tough chemical and abrasion resistant coating. This reaction is very fast, with typical working times of less than 15 minutes. **PRODUCT #1800** is recommended for use in areas such as tanks, cooling tower linings, water and wastewater and waterproof deck coatings. It can be used in food and beverage cold storage areas, mechanical rooms, industrial plants, chemical and fertilizer plants, pulp and paper mills and petrochemical facilities.

ADVANTAGES

- ✚ Fast cure. Can be mixed and put in service within 2 hours.
- ✚ Chemical resistant
- ✚ 100% solids. Two-component, low shrinkage
- ✚ Excellent physical properties including high adhesion, tensile strength and abrasion resistance.
- ✚ High thermal stability at temperatures up to 350°F.

SURFACE PREPARATION

- ✚ Steel Surfaces - Prepare in accordance with Steel Structures Painting Council Surface Preparation SSPC-SP6 to SP10 near-white metal blast cleaning. All work blasted should be coated the same day. Recommended primer on steel is Epoxy.com Product [#1200 - Epoxy Zinc Rich Primer](#).
- ✚ New concrete - remove laitance by acid etching, abrasive blasting or water blasting. Old concrete - abrasive blast or water blast to remove laitance and contamination.
- ✚ Polyurea - Less than three days old solvent wipe and apply **PRODUCT #1800**; if more than 3 days old roughen surface with abrasive sanding. Solvent Wipe with Acetone or MEK and apply.
- ✚ Project Conditions: Surface must be structurally sound, dry, and uncontaminated. Concrete must be free of voids, bugholes, honeycombs and delaminations.

MIXING:

PRODUCT #1800 is a plural component polyurea system. Equal volume parts of the Part A resin and Part B hardener should be mixed in small 1 pint batches. Always add the Part B hardener to the Part A resin.

APPLICATION:

Epoxy.com **PRODUCT #1800** may be applied by brush, roller or squeegee. Concrete surfaces shall be primed with EpoxySystems Product # 810 Primer. Apply **PRODUCT #1800** to achieve the required mil thickness with 50% overlaps. Aggregate broadcast may be applied if non-skid surface is required.

PRODUCT #1800 can be applied at temperatures from 35°F to 120°F. Apply to achieve the required mil thickness with 50% overlaps.

PACKAGING: PRODUCT #1800 is packaged as a 2 gallon unit and 10 gallon unit.

LIMITATIONS: PRODUCT #1800 is an aliphatic based polyurea system. Consult chemical resistant chart for corrosive environment applications. Do not install in hydrostatic or moisture/vapor conditions.

SHELF LIFE: Six months minimum when stored at 75°F and dry conditions. PRODUCT #1800, like most construction materials, must be stored in a dry, well protected and suitable storage environment. Keep containers sealed.

PHYSICAL PROPERTIES

Mix Ratio	By volume 1:1
Cured Properties	
Gel time, minutes	20
Surface at 30 minutes	tacky
Surface at 2 hours	tack free
Full Cure	5 days
Shore D Hardness,	65
Tensile strength, psi	3200
Elongation, %	60%
Tear strength, psi	310
Remains flexible in temperature range of -45°F to 200°F	
1000g 1000 rev CS-17	< 5 mg.
Flash Point, Components	> 200°F
Flexibility Testing (1/32" steel panels)	> 160 in-lbs
Gardner Impact	Direct and Indirect
Moisture Vapor Transmission ASTM E 96	0.025 perm
Abrasion Resistance (wt. loss mg) ASTM D 4060 1000g	1000 rev H-18 200mg.
Color	Medium Gray - Stock Color (White, Black, Light Gray, Dark Gray, Beige, Brick Red, Safety Yellow by special order minimum quantities required)
Bond Strength	
Concrete	375 psi
Steel	1,750 psi
Wood (Wood delamination)	200 psi

CAUTION: Contains aliphatic isocyanates. Avoid breathing vapors. Avoid contact with skin and eyes. Do not ingest. Keep away from foodstuffs and wash thoroughly before smoking or eating. Should skin contact occur, wash skin well with soap and water. Should eye contact occur, flush thoroughly for at least 15 minutes with water. Get medical attention.

**FOR INDUSTRIAL USE ONLY
KEEP AWAY FROM CHILDREN**

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