



# 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	10
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**

For more information please contact:

[Epoxy.com](http://Epoxy.com).

**352-489-1666 (Phone)**

**352-489-1625 (Fax)**

[info@epoxy.com](mailto:info@epoxy.com)

[www.epoxy.com](http://www.epoxy.com)

Epoxy.com a division of Epoxy Systems, Inc. warrants its products (when properly stored) for the period of time as follows: Epoxies, Product #315, Product #315BC, and Product #316 one (1) year; Polyesters, Methyl Methacrylates (normal) two (2) months and Polyurethanes Four (4) months; Power Tools and Equipment 90 days; Vinyl Esters, High Molecular Weight Methacrylates (HMMA) and all other resins (not specifically mentioned above) 30 days; hand tools (non-power tools) 30 days. Epoxy.com warrants that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of Epoxy.com. If any product fails to meet this warranty, the liability of Epoxy.com will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Epoxy.com within the warranty period for the material (as indicated above), or within 1 year of the delivery of materials (whichever is sooner). Epoxy.com may in its discretion refund the price received by Epoxy.com in lieu of replacing the material. No customer, distributor, or representative of Epoxy.com is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Epoxy.com. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Epoxy.com reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. Epoxy.com 'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND Epoxy.com SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. All quotes and sales subject to availability.

Many of our products are made on an individual order basis. Unless authorized in writing by Epoxy.com a division of Epoxy Systems, Inc. in writing before the material is made, there are no returns on items purchased from us, once the order has been processed, and the material made. In the event of authorized returns a restocking charge will be charged in the amount of 30% of the value of the material returned or \$150 whichever is greater. No returns on non-list priced items. All Returns are for merchandise (store) credit only, no cash or credit card credits. In the event of a return, buyer is responsible for the cost of shipping and handling in both directions.