



ReflectASeal

Epoxy Coatings & Waterproofing Systems

REFLECTASEAL-450

Description:

REFLECTASEAL-450 is a tough and flexible protective coating for concrete and metal. It is a 100% solid Polyamidoamine epoxy resin used in various applications where chemical and corrosion resistance is required. No VOC.

Resistance:

REFLECTASEAL-450 is highly resistant to acids, solvents, caustics, hydrocarbons, saltwater, and freshwater. It was developed to withstand extreme corrosive and abrasive conditions with excellent outdoor durability.

Application Areas:

REFLECTASEAL-450 is excellent as an anti-corrosive, interior and exterior of tanks, pipelines, cooling towers, vats, boat bottoms, floors, etc. REFLECTASEAL-450 retains a resilient body, even after final cure. It can even be used under constant spillage, immersion conditions or highly abrasive applications. Designed to protect steel and concrete that is submerged in saltwater such as offshore oil equipment and other marine applications.

Preparation:

Surfaces should be free of rust, mill scale, oil, paint, films, grease, soluble salts, and other contaminants. Sand blasting to white metal is necessary in most cases. Concrete should be etched to provide a profile for optimal adhesion. Latinate and other loosely bound materials should be removed to provide a solid bonding surface. The preparation procedures above are general guidelines. The preparation procedures above are general guidelines. Detailed preparation methods are available through SSPC at www.sspc.org or 412-281-2331 or NACE at www.nace.org or 281-228-6200.

Mixing:

The mixing of Part A and B is very important! Material is supplied in two containers as a unit.

Agitate part B separately in container supplied before pouring. REFLECTASEAL-450 has a mixing ratio of 1 parts "B" to 1 part "A" (1:1). Use a jiffy mixer to thoroughly combine both parts, mixing for at least 5 minutes. Allow idle activation time for at least 10 minutes. **Do not add thinner until activation time is complete.**

Thinning:

If thinning is necessary, use no more than 1/2 pint of Xylene per 1 gallon of epoxy. **Thinner can only be added after activation process is complete.** Thinning increases possibility of sag and can extend cure time.

Application:

Apply REFLECTASEAL-450 with a brush, 3/8" nap roller cover, or conventional spray equipment. Airless spray equipment should not be used. The heat created by an airless system can shorten pot life considerably and damage the coating and equipment. *Caution! Without the use of aggregate, REFLECTASEAL-450 is slippery when wet.*

DRY FILM APPLICATIONS

To get dry film of:	Apply Sq. Ft. /gal.
8 mils	200 sq ft
16 mils	100 sq ft

DO NOT apply product heavier than (16 wet mils) on vertical surfaces. Heavy coats may be applied (up to 24 mils) on horizontal

surfaces without danger of bubbling or pinholes in film. For heavier film, apply additional coats. Additional coats must be applied as soon as the surface is tack free or within 36 hours.

Clean Up:

Application equipment should be cleaned immediately with Xylene. Use white vinegar to clean hands and skin. **Do not allow REFLECTASEAL-450 to remain on tools! Once it sets and is cured, it is extremely difficult to remove.**

Curing Time:

Pot Life:	1-1/2 hrs @ 80 °F
Drying Time:	6 hrs @ 80 °F
Complete:	48 hrs @ 80 °F

Packaging:

2-gallon units:

- 1 gal can containing Base (Part "B")
- 1 gal can containing Activator (Part "A")

Also available in 10 gallon units

Colors: REFLECTASEAL Standard Colors (Gray, Tan, or White)

Solids content: 100% Solids

Mixing Ratio: 1 parts "B" to 1 part "A" (1:1)

Abrasion Resistance (ASTM D4060):

Taber abraser CS-17 calibrase wheel at 4000 cycles with 2.95 mils wear and .42 grams lost.

Adhesion-Pull-Off (D4541):

Concrete: 100 % substrate failure @ 1181 psi
Steel: 80% adhesive failure @ 2337 psi

Impact Resistance (D2794):

16 inch lbs. direct - passed

Pencil Hardness (D3363): 5H – passed

Food Contact: FDA 21-CFR 175.300 compliant

Flammability:

Flammable during application. Will not support combustion when cured.

For further assistance, contact one of our technicians via phone or e-mail.

MSDS are available for health and safety data.

For emergency information contact:

CHEMTREC @ 1-800-424-9300

Safety:

This product (and any recommended thinners) contains solvents and/or chemical ingredients. Adequate health and safety precautions should be observed during storage, handling, use, and drying periods. For safe usage, user is specifically directed to consult the current Material Safety Data Sheet for this product. When using this product in a confined space or closed area, consult the OSHA or ANSI bulletins on safety requirements.

The information as set forth in the technical data contained herein has been developed based on test and evaluations made by REFLECTASEAL, LLC. for standard coating applications. We believe this information is the best currently available on the subject. We make no guarantee of results and assume no obligation or liability in connection with this information. It is offered as possible helpful suggestion, any experimentation you may care to undertake along these lines, is at your own risk. You should test the coating material to determine if it is suitable for the application intended. It is supplied on the condition that you shall make your own tests to determine its suitability. REFLECTASEAL shall have no liability for incidental or consequential damages, indirect or direct. Our liability is limited to the net selling price of the purchased product(s) or the replacement of our product, at our option.