



Duraweld-80

2 Part Epoxy

Syrup Viscosity

Description:

Solvent free 2 part epoxy binder for concrete and steel reinforcement and anchor embedment. It bonds concrete to concrete and is not affected by dampness on fresh* concrete. Once mixed, will be concrete gray in color and will have an open time of 30 to 45 minutes + or - @ 75° F on the average for use. Heat will accelerate the set and cold weather will slow the setting time. Product has the viscosity of a heavy syrup. (100 c-poise max).

Uses:

Use on cured concrete to bond fresh concrete. Can be used to coat bared metal reinforcement against corrosion and as general structural adhesive and a chemical resistant surface. Epoxy can be extended with dry silica sand to make a mortar.

Limitations:

When bonding to hardened concrete of at least 7-14 days old. Keep material cool before mixing on hot days. Heat will increase setting times. Units can be cooled in a cool water bath until ready to be mixed. Do not use when temperatures are expected to fall below 40° F. Epoxy must be still tacky to bond. If material becomes hard, remove hardened material before applying fresh coat. Caution when used on wet surfaces caused by hydrostatic pressure. When used to embed steel into concrete, the hole should be dust free and never bigger than a 1/4 the size of the bar.

Compliance:

Bond: ASTM C-882, Type I,II,VI, V, Grade 2 Class B & C, 1200 psi in 24 hours, 1500 psi in 14 days
Compressive: ASTM D-695, 3000 psi in 24 hours, 10,000 psi in 7 days.
Tensile: ASTM -638, 7000 psi in 14 days
Flexural: ASTM D-790, 7500 psi in 14 days.
Water absorption: ASTM D-570: Less than 0.5%
Tack Free: 2-4 hours at 75° F

Coverage:

Up to 100 Sq./Ft. per gallon depending surface profile.

Packaging:

2 gallon kits. (A+B)
Case of 4 Gallon kits. (A+B)

Installation:

Only apply to a clean non-dusting substrate. Mix part A with Part B in equal proportions until it completely becomes a uniform color .

Apply a generous coat to fully cover surface by roller or brush over surfaces to be bonded.

Can be applied to steel and used as a reinforcement for additional protection. Mix only amounts to be used in the allotted time before it becomes difficult to apply.

Apply to both surfaces of dry concrete or steel if both surfaces are to be bonded together.

Safety and Clean-up:

Keep away from fire hazards, ignition sources and do not smoke while handling.

Use eye and skin protection.

Avoid inhalation of fumes. Causes respiratory irritation. Use gloves and approved respirator in well ventilated areas.

Clean tools and equipment with Lacquer thinner or Acetone.

Request a copy of product MSDS Data for additional information for safe handling of this product.

Dispose unused material as solid waste following local and federal laws.

TECHNICAL DATA

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We care about the environment



CONSTRUCTION PRODUCTS

Duraweld-80 Hi-Mod.

Anchoring Bolts & Dowels:

Hole should be at least 1/4 inch larger diameter than the anchor. Blow holes clean and apply epoxy to dowel and fill the hole. Insert into hole, making sure hole is filled evenly to the surface.

As structural bonding agent:

Apply to the area to be bonded by brush or roller, making sure all of the surfaces are evenly coated. When joining steel plates, apply mixed epoxy to both sides of the surfaces to be bonded. Bond concrete or metal parts before epoxy hardens.

Coverage: as a bonding agent:

Over Smooth Surfaces: 100 Sq./Ft. per gallon

Over Rough Surfaces: 60-Sq./Ft. per gallon

Where to Use:

- ◆ Thin Set Mortars and grouting applications to structural concrete in bearing applications.
- ◆ Structural bonding adhesive for hardened to fresh concrete. (minimum 7 days old)
- ◆ Corrosive resistant protective coatings.
- ◆ Low maintenance parking decks, loading areas, industrial floors.
- ◆ Bolt and anchor grouting.
- ◆ Base plate epoxy mortars.

Extend with fine silica for grouting:

Can be mixed to up to 3 parts of dry silica sand by volume. (grouting)

1to1 Mix: covers approximately 12.8 Sq./Ft. at 1/8 inch

Warranty: When product is used according to directions and when properly used, warranty is limited to one year after product is supplied to the purchaser in the original container. Refund of the purchase price only if deemed defective at manufacture. This product is intended for industrial professional use by competent tradesmen with sufficient knowledge and experience on use and proper handling of these products. The purchaser agrees to assume all responsibility for installation, product selection, application, job warranties, use, transport and disposal of product. Builders Construction Products shall not be liable to the purchaser or any third party for costs of labor or direct or indirect and incidental or consequential damages related to the use or suitability of this product. No other warranties are implied. Responsible disposal of used products and packaging is the responsibility of the purchaser and or user. Disclaimer clause; while we try to publish the most accurate information we reserve the right to correct mistypes and incorrect statements as the are discovered. If at any time you have doubts about the contents of any of our literature, you are encouraged to contact us.

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