



Duraweld-60 2 Part Epoxy Gel Viscosity

Description:

Duraweld-60 is a solvent free 2 part Gel epoxy binder for concrete and steel reinforcement embedment. It bonds concrete to concrete and is not affected by dampness on concrete. Once mixed, is concrete gray in color and will have an open time of 30 to 40 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 GEL, and can be extended with dry Silica sand.

Uses:

Used on hardened concrete to bond fresh concrete. Used to embed steel into concrete, Used as structural adhesive. Will accept up to 5 parts of silica sand used as a floor chemical resistant coating, repair mortar, vertical forms, machinery pads and many other uses. Gel can be applied to overhead surfaces without sagging.

Limitations:

Keep cool before mixing. Heat will affect setting times. In hot days units can be cooled in a cool water bath until used. Do not use in temperatures below 40° F. Epoxy must be still tacky for bond. If material becomes hard, Removal should be considered instead of re-coating. Do not use in temperature below 40° F. Cold weather can stop thermosetting properties of most epoxies and stop the hardening process. When used to embed rebar, hole should be dust free and never bigger than 1/4" bigger than the size of the bar.

Installation:

Only apply to a clean non-dusting substrate. Mix part A with Part B in equal proportions until completely becomes a uniform color. Apply a generous coat to fully cover surface by roller or brush to surface to be bonded to fresh concrete. Mix only amounts to be used in the allotted time before it becomes difficult to apply. Apply to both surfaces when jointing steel, wood or concrete like materials. For rebar and anchors, clean holes and dip steel in the epoxy mix and hammer into place with a twisting motion. On floor overlays, can accept 3 to 5 parts of silica by volume depending on thickness. Applications over floors should be applied in one direction avoiding air pockets by squeegee or roller. Can be used to stop moisture coming to the surface in slabs and walls, caution to assess each individual case. Hi hydrostatic pressures may require a different approach.

Packaging:

2 -1 Gal kits in each case, (A + B)

Compliance:

Bond: ASTM C-882, Type III, Grade 3, Class B & C

1900 in 48 hours (dry), 1800 psi in 14 days (wet cured)

Compressive: ASTM D-695, 4500 psi in 24 hours , 6700 psi in 7 days. @ 75°

Tensile: ASTM -638, 2350 psi in 14 days

Flexural: ASTM D-790, 3000 psi in 14 days.

Water absorption: Less than 0.5%

Tack Free: 2-4 hours at 75° F

Coverage: Up to 100 Sq./Ft. per gallon @ 15 mills, depending surface profile.

Safety and Clean-up:


Keep away from fire hazards and ignition sources, do not smoke while handling. Use eye, skin protection and avoid breathing fumes, use gloves and breathing chemical mask 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

Warranty: When product is used according to directions, warranty is limited to the refund of the purchase price if deemed defective at manufacture. This product is intended for industrial professional use by competent tradesmen. Builders Construction Products shall not be liable to the purchaser or any third party for costs of labor 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 end user.

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