SurePoxy
116/117

Description
SurePoxy 116 & 117 is a 100%-solids, high-modulus, two-component, fast-setting epoxy gel. SurePoxy 116 & 117 provides a rigid, non-shrinking adhesive for use in both dry and damp applications. It is insensitive to moisture before, during, and after cure. SurePoxy 116 & 117’s unique non-abrasive formula makes application significantly easier with pressure injection equipment. SurePoxy 116 & 117 is intended for application from 60-95°F. Temperature variations during cure will effect the strength gain time.

Uses
Recommended for grouting of anchor bolts, bridge railings, dowel bars (either plain or epoxy coated) in transverse, longitudinal and vertical joints in highway and bridge application. Seat base plates and heavy vibrating machinery, subject to both high stress and impact. Use to adhere parking bumpers and sealing cracks and ports for injection of epoxy into concrete. It is also recommended for testing the adhesion of epoxy systems to concrete using a pipe cap tensile test. SurePoxy 116 & 117 is chemically engineered expressly for use with automated injection equipment. Follow pressure equipment manufacturers directions.

Specifications
ASTM C-881, Types I, II, IV & V, Grade 3, Classes B & C (modified for faster set)
ODOT Supplemental Specification #803 and 952.
AASHTO M-235, Types I & II, Grade 3, Classes B & C (modified for faster set)
AASHTO M-237, Types I & II, Grade 3, Classes B & C (modified for faster set)

VOC
0 grams/liter

Physical Properties - Uncured @72°F, 50% RH

Mixing Ratio
1:1 by volume

Color
A-white; B-gray; Mixed-gray

Viscosity
Non-Sag Gel

Shelf Life
2-year minimum

Pot Life (conditioned to 72°F & cured at following temps)

1 quart
8-12 min. 60 min.

¼” Bead
20-30 min. 3-4 hrs.

Final Cure
1 day 7-10 days

Cured

HDT (ASTM D-648) 125°F

Bond Strength
2,100 psi. min. @ 14 days

(ASM C-882)

Compressive Strength
4,500 psi. @ 2 hrs

(STM D-695)

Compressive Modulus
8,500 psi. @ 3 days

Yield Strength
12,000 psi. @ 7 days

(ASTM D-695)

Tensile Strength
15,000 psi. @ 7 days

& elongation, (ASTM D-638) <2 % @ 7 days

Flexural Strength
3,900 psi. @ 7 days

Shear Strength
460,000 psi. @ 7 days

(ASTM D-732)

Water Absorption .5% max .1%

Pull Out Test
34,000 psi. @ 7 days

(ASTM E-488)

Shore D Hardness
80 min.

(STM-2240)

Shrinkage (ASTM C-883) .002 max.

All values approximate will vary with temperature and humidity.

For professional use only. Not for sale to or use by the general public.

LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salesmen, distributors and their salesmen have no authority to change the printed recommendations concerning the use of our products.
Packaging
7.5L (2 gal. unit)
37.85L (10 gal. unit)
600 ML (22oz.) 6 per carton

Temperature Conditions
Store at 40-95°F. Condition material to 60-85°F before using.

Directions

Surface Preparation
Condition SurePoxy 116 & 117 to 70°F before using. All surfaces must be free of foreign matter and be structurally sound. Prepare surfaces by acid etching, mechanical scarification or sand-blasting. Drill hole and blow out loose dust and debris from hole using oil and moisture-free compressed air and brush. Remove foreign matter from surfaces.

Application
Static Mixers - Insert the tip of the static mixer all the way to the back of the hole to be grouted. Dispense material and gradually withdraw the mixer as the hole fills up. You can stop pumping SurePoxy 116 & 117 into the hole when they are approximately 50% full, as the mechanical device will displace most of the SurePoxy. Check constantly to avoid air pockets and unevenly mixed components.

Hand mixing - Mix until color is completely uniform. Insert into hole and fill from the back outward until the hole is 50% full. Insert anchoring device with a twisting motion all the way to the back of the already grouted hole. Attach grout containing plastic disc onto dowel or rebar to prevent run out. For cold weather work it helps to make the discharge opening of static mixers larger by cutting off the smallest opening. Depth of embedment is typically 10-15 times the bolt diameter.

Notes
Clean equipment with SurePoxy Thinner, or other aromatic solvents (such as Xylene), immediately after use. Jobsite tests should be conducted in order to verify anchor performance.

Precautions
Do not thin. Not for sealing cracks under hydrostatic pressure. Read Material Safety Data before using. This product is intended as an anchoring adhesive in relatively low mass volumes. Mixing during cold temperatures makes the gel thicker and more difficult to mix properly. Warm the material to temperatures above 70°F before using. Please refer to the General Epoxy Instructions for complete details on proper application during cold and hot weather.