

K A U F M A N

PRODUCT
INFORMATION

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SurePoxy 116

Description

SurePoxy 116 is a 100%-solids, high-modulus, two-component, very fast-setting epoxy gel. SurePoxy 116 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's unique non-abrasive formula makes application significantly easier with pressure injection equipment. SurePoxy 116 is intended for application in temperatures from 40°F to 95°F. Changes in temperature will speed up or slow the strength gain. SurePoxy 116 is especially modified for both rapid set and strength gains.

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. 116 is also recommended for testing the adhesion of epoxy systems to concrete using a pipe cap tensile test. SurePoxy 116 is chemically engineered expressly for use with automated injection equipment. Follow pressure equipment manufacturers directions. Due to its' rapid set time, SurePoxy 116 is also ideal for sealing cracks, and around ports, prior to injection of low viscosity resins.

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, IV & V, Grade 3,
Classes B & C (modified for faster set)

VOC

0 grams/liter

Physical Properties - 1/4# Uncured

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 & cured at following temps)

	75°F	42°F
1 quart	5-6 min.	10-20 min.
1/4" Bead	10 min.	25-30 min.
Final Cure	1 day	3 days

Cured

HDT (ASTM D-648)	125°F
Bond Strength (ASTM C-882)	2,100 psi. min. @ 14 days
Compressive Strength (ASTM D-695)	4,500 psi. @ 2 hrs 10,500 psi. @ 1 day 12,500 psi. @3 days
Compressive Yield Strength	12,000 psi. @ 7 days
Compressive modulus	460,000 psi. @ 7 days
Tensile Strength	8,500 psi. @ 3 days
& elongation, (ASTM D-638)	<2 % @ 7 days
Flexural Strength	15,000 psi. @ 7 days
Shear Strength (ASTM D-732)	3,900 psi. @ 7 days
Water Absorption.5% max (ASTM D-570)	.1%
Pull Out Test (ASTM E-488)	34,000 psi. @ 7 days
Shore D Hardness (ASTM-2240)	80 min.
Shrinkage (ASTM C-883)	.002 max.

All values approximate-will vary with temperature and humidity.

Packaging

7.5L (2 gal. unit)

37.85L (10 gal. unit)

600 ML (22oz.) 6 per carton

Temperature Conditions

Store dry at 40-95°F. Conditioning SurePoxy 116 to at least 70°F before using for fastest results. If this is not possible, be sure it is at least conditioned to 40°F. and be aware that it will develop strengths slower.

Directions

Surface Preparation

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 into the hole when they are approximately 50% full, as the bar 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 anchor or rebar 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 before using.

Precautions

Store at 40-90°F. 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. Please refer to the *General Epoxy Instructions* for complete details on proper application during cold and hot weather.

When used as a vertical/overhead anchoring adhesive that will carry a sustained tension load, this product is intended only for short-term use. This product is manufactured to meet all aspects of ASTM C-881 which includes no performance standards with regard to creep and/or deformation. It is the responsibility of the engineer and/or contractor to determine the suitability of this product for the intended use.