

AMG K Pro TNG

AS MANUFACTURED BY

K A U F M A N

PRODUCTS



K Pro TNG

Description

K Pro TNG is a 100%-solids, high-modulus, two-component, slow-setting epoxy gel. K Pro TNG is engineered specifically for use in pile repair as a tongue and groove adhesive on fiberglass pile jackets. It is insensitive to moisture before, during, and after cure, and is equally suited for saltwater, fresh water, and brackish water.

Specifications

ASTM C-881, Types I, II, IV & V, Gr. 3, Class C
AASHTO M-235, Types I, II, IV & V, Gr. 3, Cl. C

VOC

0 grams/liter

Packaging

22 oz. cartridge (6 per case)
2 gallon unit
10 gallon unit

Temperature Conditions

Store at 40-95°F. Condition material to 60-85°F before using. K Pro TNG is ideally suited for use in temperatures between 45°F and 95°F.

Directions-Cartridges

K Pro TNG is packaged in a 22-ounce cartridge system to allow for effortless application with the use of either a manual or air-pneumatic cartridge gun. Once the static mixer is attached, and the cartridge is loaded into the gun, the material may be ejected.

When dispensing K Pro TNG in cartridges make certain that a bead of material is produced that is uniform in color prior to filling the groove. There must be no visible color streaking, indicating improper mixing of the K Pro TNG. Typically, the first few inches of epoxy cartridges are not adequately mixed to achieve the advertised performance. Discard this improperly mixed material. Simply insert the static mixer tip into the groove of the fiberglass jacket and begin ejecting K Pro TNG evenly. The groove should be filled half-way and along the entire length of the jacket. Do not fill the groove until just prior to fiberglass jacket installation.

K Pro TNG cartridges must be dispensed under constant, uniform pressure not exceeding 50 psi. If dispensing is not constant, re-establish the same uniform color again before dispensing.

Directions-Hand Mixing

When using either 2-gallon or 10-gallon units, the process is the same as described for cartridges, except that the A component and B Component must be mixed until uniformly blended. Never mix more than can be applied within thirty minutes at 70°F. Mix K Pro TNG until the color is completely uniform without any color streaking.

Technical Service

Call Kaufman Products technical services department for questions regarding other manual or pneumatic guns. For cold weather work it helps to make the discharge opening of the static mixers larger by cutting off the smallest opening.

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

Mixing Ratio	1:1 by volume
Color	A-White B-Gray Mixed-Concrete Gray
Viscosity	Non-Sag Gel
Shelf Life	2 Years
Solids by Weight	100%
Gel Time @ 72°F (ASTM C-881; 80 gram mass)	30-35 minutes

Cured

HDT (ASTM D-648)	125°F
Bond Strength (ASTM C-882)	1,000 psi. min. @ 2 days 1,500 psi. min. @ 14 days
Compressive Yield Strength (ASTM D-695)	10,000 psi. @ 7 days
Compressive Modulus (ASTM D-695)	205,000 psi. @ 7 days
Tensile Adhesion (ASTM D-4541)	1,200 psi.
Water Absorption (ASTM D-570)	.2% max.
Linear Coefficient of Shrinkage (ASTM C-883)	.002 max.

All values approximate-will vary with temperature and humidity.

Notes

Clean equipment with aromatic solvents (such as Xylene), immediately after use. Take all necessary precautions as solvents are flammable.

Precautions

Do not allow K Pro TNG to remain in the static mixer for more than 20 minutes, as the material will begin to solidify causing blockages and impeding future material from being mixed. Do not thin. Not for sealing cracks under hydrostatic pressure.

Read Safety Data Sheet before using. Take all necessary precautions to protect those in contact with an epoxy resin system such as special clothing, gloves, eye protection, etc.

This product is not intended for use as an anchoring adhesive and is not intended for use with a constant suspended load. The NTSB has stated that epoxy adhesive products are approved for short term loads only and should not be used in sustained tensile load adhesive anchoring applications where adhesive failure could result in a public safety risk. Consult a design professional prior to use.

Cold temperature 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. Always pay special attention to cartridges to determine that the static mixer is properly mixing the material.

Technical Information

Test results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.