



FX-516

Polyurethane Sealant

One Component Non Sag

DESCRIPTION:

FX-516 Polyurethane Sealant is a one-component moisture cured sealant. It cures to a permanently flexible material which has tenacious adhesion to most common building materials. It is ideal for sealing both exterior and interior joints where movement does not exceed $\pm 25\%$ of the total width. **FX-516** can be used in joints either above or below grade.

ADVANTAGES:

- * Excellent bonding
- * Resistant to salts and weather
- * Non staining
- * Easy to gun

Specifications meet and exceed the following:

FX-516 meets the requirements of ASTM C-920, Type S, Grade NS, Class 25, Use NT, M, G, A, O, TT-S-00230C, Type II, Class A; CAN-19, 13-M87. Meets California Air Resources Board 2003 requirement for Volatile organic Compound content.

PHYSICAL PROPERTIES:

Sag or Slump	Nil
Extrusion Rate per grams/minute	400
Tack-Free Time at 77°F, 50% RH	4 hrs
Cure Time 77°F, 50% RH	1/8 in per 24 hrs.
<u>As Cured</u>	
Durometer Hardness, Shore A	38
Ultimate Tensile Strength	240 psi
Elongation	800%
Modulus @ 100% Elongation	95 psi
Peel Strength	35 pli
Dynamic Joint Movement	$\pm 25\%$
Application Temperature	40°F to 110°F
Service Temperature	-40°F to 200°F
Volatile Organic Content	3.37% by weight 40 g/l - 0.34 lbs./gal.

SURFACE PREPARATION:

Joint surfaces and backer rod must be dry, clean, and free from all foreign matter, laitance and efflorescence. Priming is not normally required with common building materials. In instances where priming is required, **FX-516 Primer** should be used. Primer must be dry before application of **FX-516**. Drying time for **FX-516 Primer** is 1 hour @ 75°F. The sealant should be applied within 8 hours after priming. Reprime if the time limit has expired.

NOTE: Unusual building materials, special coatings and treatments of surfaces may impair optimum adhesion. Due to the unpredictable nature of these surfaces, a field test is recommended to determine the adhesion of **FX-516** with or without the aid of primer. We welcome the opportunity to conduct test in our laboratory if relatively small specimens are available, representative of the joint conditions on the job.

All precast panels using any form-release agent other than polyethylene film are to be sandblasted or mechanically abraded prior to the installation of sealant.

Joints subject to total water immersion **MUST** be primed. Joints must be dry prior to priming with **FX-516 Primer** and sealing with **FX-516**. Allow sealant to cure a minimum of one week before immersion. It should be expected that the longevity of the sealant bond under these immersion conditions will be less than that above grade.

JOINT BACKING: Backer rod controls the depth of the sealant and allows it to be applied under pressure. **FX-Backer Rod** is recommended. Use a size that will compress 25% when inserted into the joint. In joints too shallow for backer rod, use a bond breaker tape to prevent adhesion to the bottom of the joint.

COLOR:

Standard color is Limestone. Special order colors are available.

PACKAGING:

Sausages: 20.2 (600 ml) fluid ounces—36 \pm cu. in.

SHELF LIFE:

Store in a cool dry place. Shelf life is 6 months if stored in original unopened container.

(continued on back)

LIMITATION PREPARATIONS:

Not recommended for:

- * Joints contaminated with oil, grease, wax, dust, corrosion, tar, asphalt, loose aggregate, frost, dampness, form-release agents or other coatings.
- * Exposure to harsh chemicals.
- * Application when temperature is below 40°F.
- * Glazing, as a cap bead, heal or ice bead with high-performance glass or plastic.
- * Joints less than 1/4" in width of depth.
- * Certain architectural paints and finishes without laboratory or field testing.

CAUTION:

FX-516 contains aromatic polyisocyanates which are considered irritants. Use with adequate ventilation. Avoid skin and eye contact. Skin may be cleaned with mineral spirits and then washed thoroughly with soap and water. May be harmful if swallowed. Do not induce vomiting. Call a physician immediately. Keep away from heat and flame. Consult Material Safety Data Sheet for additional information.