

## SATURANT EPOXY ADHESIVE



FX-1100 is a two-component epoxy adhesive use to bond solids, Condensation-tolerant, high viscosity, high strength, low modulus, No sag, multi-purpose liquid epoxy adhesive.

- PRODUCE NAME : Saturant Epoxy Adhesive
- PRODUCT CODE : FX-1100
- SIZE : 600ML
- RATIO : 1:1
- COLOR : PART A- Clear to light Amber  
PART B- Amber  
MIXED- Amber

## PRODUCT USAGE

Use to seal and create durable bond to repair crack, structural repairs or freshly mixed concrete to hardened concrete, to fill voids and cracks in concrete, masonry and other substrates. It can also be injected, used as a binder in epoxy mortar, as an anchoring adhesive, or as a binder for high friction surface treatments (HFST) on concrete, asphalt or other substrates.

## ADVANTAGES

- High strength/low modulus structural adhesive
- Provides a thin layer of impermeable material after curing
- Fast cure formula

### TECHNICAL DATA

Test Item	Test Result
Viscosity	2,200 cps @ 25°C
Gel Time (60 g)	25 min
Tack Free Time (23°C)	3 to 5 min
Tensile Properties	
Tensile Strength	2,900 psi (20 MPa)
Tensile Elongation	40%
Bond Strength	
2 day cure	1,958 psi (13.5 MPa)
14 day cure	2,828 psi (19.5 MPa)
Comprehensive Properties	
Comprehensive Strength	5,511 psi (38 MPa)
Comprehensive Modulus	113,129 psi (780 MPa)
Comprehensive Strength	
3 hour cure	1,500 psi (10.3 MPa)
24 hour cure	5,076 psi (35 MPa)
Bond Strength	362 psi (2.5 MPa)
Flexural Strength	3,190 psi (22 MPa)
Shrinkage on Cure	0.2%
Heat Deflection Temperature	120°F(49°C)

\*\*\* For information only - not for specification purposes. \*\*\*

### CONDITION PRODUCT

➔ Condition cartridge and contents to a temperature of 18°C-29°C (65°F-85°F) for easier dispensing.

### SHELF LIFE /STORAGE

➤ 24 months shelf life when stored in unopened containers in dry Conditions and stored at 4°C-35°C (40°F-95°F)

### MINIMUM CURING TIME

TEMPURATURE (°C)	10°	15°	20°	25°	30°
MINIMUM CURE TIME(hr)	10	6	4	3	2

### LIMITATIONS AND WARNINGS

- Minimum substrate temperature is 10°C (50°F).
- Do not thin. Solvents will prevent proper cure.

### APPLICATION INSTRUCTIONS

- **MIXING :** Part A : Part B = 1 : 1 by volume

#### APPLICATION TEMPERATURE

- ➔ Substrate and condition air temperature between 6°C and 38°C (50°F and 100°F) to be maintained thru the curing period.

### APPLICATION METHOD

#### STEP1. PREPARATION

1. Inspect the crack that is being repaired.
2. Mark any areas that the crack is not continuous
3. Place plastic down on floor
4. Clean the crack and immediate surrounding areas with a wire brush.

#### STEP2. PORT LOCATIONS

##### Continuous Cracks

- Stain port locations approximately every 18" starting from the bottom of the crack.

##### Discontinuous Cracks

- Stain port locations just above any discontinuous point in the track.
- Space remaining ports may be required for cracks with multiple discontinuous locations.

**\*\* Note:** Additional ports may be required for cracks with multiple discontinuous locations.

#### STEP3. PORT INSTALLATION

1. Remove port cap from the side of the port and set aside.
2. Prepare a small amount of High Strength Epoxy Paste FX-1100PS onto a disposable work surface such as cardboard or painters tray.
3. Roll the entire flat edge of the port in the High Strength Epoxy Paste FX-1100PS.
4. Make sure the hole for the port is not plugged with epoxy.
5. Pressing firmly place the port directly over the crack at previously marked location.

### STEP4. COVERING THE CRACK

1. Administer approximately 1/3 of the tube of the High Strength Epoxy Paste FX-1100PS onto the disposable work surface (like cardboard). Add more as needed.
2. Put the High Strength Epoxy Paste FX-1100PS over the entire crack.
3. Feather the epoxy approximately 2" or more out on both sides of the crack
4. At port locations apply the epoxy around the entire port until the port base is no longer visible.

### STEP5. INJECTION

1. On the caulking gun, swap the black plastic pull located on the back of the caulking gun with one of the plastic pushers.
2. Place the Structural Injection Epoxy FX-1100 (for medium crack) with the static mixer into the caulking gun.
3. Starting at the bottom port push the static mixer into the port until you feel a click.
4. Dispense resin until you see the resin coming out of the port located directly above.
5. Remove the caulking gun and push the cap into the port.
6. Move to the next port and repeat the process until you have worked all the way up the wall.
7. Repeat entire process for the additional two corner repairs.

### STEP6. CLEAN UP

Once the material have cured take off the ports off the wall using a hammer.

## HEALTH AND SAFETY INFORMATION

- For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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