

# TeifsTEK TIPS

## SEALANTS AND EXPANSION JOINTS

### RECOMMENDED INSTALLATION LOCATIONS

#### **Expansion Joints:**

1. Building expansion joints.
2. Floor lines in wood frame construction.
3. Substrate changes.
4. Expansion joints in the substrate system.
5. Where panels abut one another for a panelized installation.
6. Where the Teifs Wall System abuts dissimilar materials.
7. Where significant structural movement occurs such as along continuous elevations, changes in roof line and changes in building shape and structural system.
8. Where a structural engineer or designer deems it necessary.

**NOTE:** Design and location of expansion joints in Teifs Wall Systems is the responsibility of the project designer and shall be noted on project drawings. Expansion and contraction of the Teifs Wall System and adjacent materials should be taken into account in the design of expansion joints. Teifs assumes no responsibility for joint design or selection of sealant.

### PRODUCTS

#### **Backer Rod: MUST BE CLOSED CELL!**

1. The backer rod sets the sealant depth, prevents three sided adhesion and promotes the correct geometry of the sealant. Select a size that will compress 25% and make sure that the closed cell backer rod is never punctured, as this could cause out-gassing and/or blistering of the sealant.
2. Bicellular or non-gassing polyolefin backer rod, (soft-type or Sof-Rod) is also approved for use with Teifs PB EIFS Wall Systems.
3. Open cell Backer Rod is never allowed.

**Bond Breaker:** If the joint is too shallow, a bond breaker tape should be used to prevent 3 sided adhesion.

#### **Primers & Sealants:**

1. Low modulus sealants will perform the best with Teifs Wall Systems. The lower the modulus, the more the sealant is allowed to move and will therefore provide less stress on the sealant/EIFS bond line and help prevent cracking or gaps.

2. When in a cold climate, the sealant should maintain a low modulus at cold temperatures.
3. These products have shown to be compatible with TEIFS Wall Systems products. Other products not listed may be acceptable but must be approved by Texas EIFS in writing.

#### One-Part Silicones

- Dow Corning 790, 791\*, 795\* (EIFS to metal)/ 1200 Prime Coat
- Pecora 890 / P64 primer

*\*Dow Corning 791 and 795 are intended to be used as perimeter seals around penetrations. They are not intended to be used when sealing EIFS to EIFS.*

#### Two-Part Urethane

- Pecora Dynatrol II P/75 or 150 Primer

### INSTALLATION

#### **Surface Preparation:**

- ◆ **Finish Coat should never be applied in a moving joint where sealant is to be applied.**
- ◆ Joint surfaces must be dry, clean and free of all contamination and foreign matter. This is essential for good adhesion. If sealant is applied immediately after the base coat has cured, dusting will usually clean the joint.
- ◆ Prior to installation, inspect joints for proper design in accordance with contract documents, make sure all joints are clean and free of any matter, mask adjacent materials and allow all Teifs Wall System materials to dry.
- ◆ Masking is important to keep primers and sealants off of all surfaces they are not intended for as they cannot be removed without damaging the surface; therefore these surfaces must be masked off.
- ◆ Sealant cannot be installed onto exposed Insulation Board.

# SEALANTS AND EXPANSION JOINTS

## Primer:

1. Primer should be put into a small, clean container (enough for 10-20 minutes of application).
2. Apply the primer with a soft bristle brush to the inside of the joint. **OVERPRIMING CAN CAUSE THE LOSS OF ADHESION.**
3. Sealant should be applied within 8 hours after priming; otherwise, it will be necessary to re-prime.
4. Allow primer to dry, according to manufacturer's recommendations.
5. Primer and sealant must be applied on the same day; otherwise the surface will need to be re-primed.

These are generic application instructions; please contact the sealant manufacturer for exact application instructions and priming recommendations.

## Backer Rod/Bond Breaker Tape:

Install backer rod that is 25% larger than the joint into the joint at a depth calculated by the joint design criteria. Where the joint is too shallow a bond breaker material shall be installed prior to applying the wet sealant to prevent three sided adhesion.

## Sealant:

- ◆ Proper installation of EIFS must start with fresh, unopened sealant. In order to eliminate potential problems it is necessary to check the sealants before application begins. This should be done for every lot number being used.
- ◆ Sealant should always be applied on the same day as cleaning.
- ◆ Carefully follow the sealant manufacturer's instructions and use materials in their original unopened containers.

## GENERIC INSTALLATION INSTRUCTIONS (please contact the sealant manufacturer for exact application instructions and priming recommendations.)

1. Cut the tapered nozzle at a 45° angle at a diameter of the opening equal to the size of the gap.
2. Poke a hole through the tip with a piece of wire and insert cartridge into caulk gun.
3. Load and lock plunger.
4. Hold the caulking gun at a 45° angle to the joint with the tip of the applicator touching both surfaces and squeeze the trigger firmly, slowly and consistently until the caulk begins flowing from the opening.
5. Once the sealant begins flowing, move the tip at a constant pace along the joint.  
**Less is better.**
6. Push the sealant ahead with the application nozzle and use positive pressure to completely fill the joint width.
7. When you reach an end, quickly release the plunger to keep the sealant from seeping out.
8. The sealant should be tooled during its "tooling time."

## NOTES TO REMEMBER

- ◆ Ensure the bead is filling the joint and touching both surfaces.
- ◆ Keep the bead uniform.
- ◆ Sealant must fill the entire joint and fully contact all surfaces.
- ◆ **Pecora's Dynatrol II:** This is a two part product and must be applied according to Pecora's application instructions.

Please note that to prevent water leakage, Teifs recommends that a skilled professional install your sealant system.  
Call Teifs for recommendations.



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Information contained in this Product Bulletin conforms to the standard detail recommendations and specifications for the installation of EIFS products, as of the date of publication of this document, and is presented in good faith. Teifs assumes no liability, expressed or implied as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest and most complete information, please contact Teifs. This product complies with all federal regulations concerning mercury and lead contents.

**WARNING:** This product is intended for use with Teifs Wall Systems. Specifications require that only approved or otherwise trained and knowledgeable applicators install such systems. Teifs cannot be responsible for deterioration of the substrate, mold, mildew and wood rot due to water intrusion and entrapment caused by improper flashing or use of improper flashing materials, improper sealing or caulking and/or use of improper sealants. Maintenance of the EIFS materials and sealants are required.