



**Teifs ONE-COAT STUCCO WALL SYSTEM**

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**Application Guide**

**Teifs**  
**Application Guide**  
**for**  
**TeifsONE-COAT STUCCO WALL SYSTEM**

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This is a step-by step application manual for professional installation of Teifs ONE-COAT STUCCO Wall System. Teifs believes the applicator is the most important element in producing a quality and long lasting System. We have designed this manual to be highly informative, concise, and easy to follow. Teifs. Unsurpassed quality in the Stucco Industry.

**Cautions and Limitations**

Teifs' Warranty does not cover defects or damage caused by water penetration due to leaks through windows or any other items installed which are not part of the TeifsONE-COAT STUCCO Wall System. Further, TeifsONE-COAT STUCCO contains Portland Cement; therefore, cracking and efflorescence may occur. Such cracking or efflorescence is not a defect in the product and; therefore, is not covered by this Warranty. TeifsONE-COAT STUCCO is guaranteed as water resistant, not waterproof. The entire assembly must be constructed to existing specifications to ensure a watertight structure and properly meet TEIFS Warranty Guidelines.

## Teifs Check List Prior to Installation

*This section is intended as a checklist for the project manager, architect, and general contractor prior to the installation of the TeifsONE-COAT STUCCO WALL SYSTEM. Refer to Teifs Installation Guidelines for examples of typical installations. It is not the responsibility of the installer to determine the proper installation for any materials other than the Stucco Wall System.*

### Job Conditions

- Ensure that the ambient temperature is above 40 °F (4 °C) until materials are dry.
- Teifs Finish Coat shall be protected from any type of contamination and from weather until it is dry.

### Substrates

- Substrates should be clean, dry, structurally sound, unpainted, true to plane within 6.44 mm (1/4 in.) over a 1.22-m (4-ft.) radius and free of loose materials, voids, projections, etc. Teifs materials should not be applied to any surface that will hold water or is frozen.
- Sheathing should be securely fastened and spaced in accordance to the building codes, and the manufacturers instructions.
- Sheathing should be protected from moisture after installation.
- TeifsONE-COAT STUCCO SYSTEM shall be applied to the following substrates:
  1. Polystyrene insulation over open framing. Polystyrene: Expanded or extruded polystyrene insulation board has a density of 1.5 up to 2.5 pounds per cubic foot (24 and 40 kg/m<sup>3</sup>, respectively), a flame-spread rating of 25 or less, and a smoke-density rating not exceeding 450 with 3/8 inch (9.5 mm) high tongues and compatible grooves for horizontal joints.
  2. Polyisocyanurate insulation over open framing. Polyisocyanurate: Dow Tuff-R or equal sheathing. Boards are 5/8 inch to 2 inches (16 to 38 mm) thick.
  3. Exterior Grade Gypsum Sheathing with regular or Type X core.
  4. Exterior Fiber Reinforced Cement Board.
  5. Unglazed Brick.
  6. Unit Masonry.
  7. Concrete which has been cured for at least 28 days.
  8. Minimum 1/2 inch 4-ply, APA Exposure 1, Grade C-D or better plywood with the C side or better facing the exterior. The plywood shall be installed according to APA guidelines and shall be plane to within a 1/4 inch over a 4-ft radius.
  9. Minimum 7/16 inches thick APA ratio exposure 1 Sheathing with 24/16 span rating installed according to APA Guidelines.

### Weather Resistive Considerations

#### Roofing

1. Check roof to make sure it has proper drainage that runs away from the structure.
2. Check that the metal roof flashing has been installed as set forth by the Asphalt Roofing Manufacturers Association (ARMA).
3. Where required, be sure that run-off diverters have been installed. Examples are kick-outs, crickets and saddles. Pay close attention to eaves/chimney intersections, as well as sloped roof/wall intersections.

#### Windows/Openings

1. Flashing shall be installed as required by the Architect/Designer. Installation of the flashing is not the responsibility of the Teifs contractor, unless specified in the contract documents.
2. Make sure all heads of openings have continuous flashing. If windows or doors do not have integral flashing, you must install a field-applied flashing.
3. If you have windows that are ganged to make multiple units, make sure the heads are continuously flashed and the joints between the units are fully sealed.
4. Flashing is required on all windows, doors and other large openings.

## Decks

1. Make sure wood decks are properly flashed.
2. Ensure the system terminates above poured decks, patios, landings, etc. and make sure they are sloped to drain water away from the walls.

**Utilities** - Make sure the system terminates properly at all light fixtures, outlets, hose bibs, etc.

**Sealant** - Sealant should be installed immediately after the completion of installation of the Teifs Wall Systems.

## Joints

1. It is recommended that trim accessory joints be installed in framed and sheathed construction so as to create stucco panels of approximately 144 square feet, as close to a square configuration as possible. Maximum length of a panel should be 18 feet (5.5m), not exceeding a width to height ratio of 3:1.
2. Installing control joints over continuous lath is an approved method, but when it is to function as an expansion joint control joints are a one piece trim accessory.
3. Locate joints where movement is expected, such as penetrations, plate lines, dissimilar substrates, existing construction joints in the structure, and at column/beam to wall intersections.

## Materials Needed for TeifsONE-COAT Installation

- Weather Resistive Barrier: Shall comply with applicable building code.  
Sheet Product: Shall comply with applicable building code.  
Weather Barrier Coating: Teifs WEATHERSEAL
- Insulation Board (if applicable): Expanded or extruded polystyrene insulation board.  
See Specification for minimum requirements.
- Lath: Minimum No. 20 gauge, 1 inch Wire Fabric; minimum 1.75 lb./yd<sup>2</sup> Metal Lath
- TeifsONE-COAT STUCCO: Factory prepared mixture of Type I-II Portland cement complying with ASTM C 150, chopped fibers and proprietary additives
- TEIFSQUICKCURE: Water-based acrylic curing primer
- TEIFSPRIME: Water-based pigmented acrylic primer which provides a flat uniform color coordinated surface for application of all Teifs' finishes
- Finish Coat: TeifsFLEX Cuarzo, Freedom, Tejas, Tejas Fine, Piedra Grande, TeifsLASTIC FINISH, TeifsLASTIC, TeifsLASTIC PLUS, eKOTE Elastomeric Coating, eKOTE Elastomeric Finish, eKOTE Finish, TeifsTUFFSTONE, TeifsEARTHSTONE
- Portland Cement: Gray or white, fresh and lump free: Type I - II
- Sand: Clean, well graded and free of deleterious materials, ASTM C 897
- Clean, potable water
- TeifsADMIX (if applicable): 100% acrylic polymer admixture for TeifsONE-COAT STUCCO
- TeifsBASE STAYDRY: Polymer based material, when mixed with Portland Cement, provides a waterproof base coat to be used on all non-vertical surfaces.

## **Weather Barrier Installation Instructions**

### **Sheet Products**

Install weather resistant barrier (building paper) from the bottom up, with the upper layer overlapping the lower layer at least 2 1/2". The Weather Barrier should overlap the starter track. Other weather resistant barriers may require a greater overlap. Follow manufacturers installation instructions.

### **TeifsWEATHERSEAL**

1. Apply 4-inch strips of reinforcing fabric to all sheathing joints, inside and outside corners, and all exposed edges at terminations.
2. Apply self-adhesive 4-inch strips of reinforcing fabric to all joints.  
- OR -
2. Embed 4-inch strips of minimum 4-oz reinforcing mesh by applying TeifsWEATHERSEAL per application instructions to 4-inches of each side of the joints and embed the reinforcing mesh with a stainless steel trowel so that the color of the mesh is not visible.
3. Apply TeifsWEATHERSEAL to the entire surface of the substrate with a stainless steel trowel to a minimum thickness of 1.6-mm (1/16-inch).
4. An additional layer of a sheet product weather barrier or paper-backed lath is required.

## **Insulation Board Installation Instructions**

### **Polystyrene Insulation (if applicable)**

1. Apply Weather Resistive Barrier under the polystyrene insulation.
2. Fasten trim at the base of the wall.
3. Starting at the bottom of the wall apply the EPS board horizontally with tongues or laps up to prevent water penetrations.
4. Stagger vertical joints.
5. Temporarily attach the insulation board with galvanized staples or roofing nails.
6. The wire lath may then be applied tightly to the EPS and fastened to the studs.

### **Polyisocyanurate Insulation (if applicable)**

1. Place horizontally or vertically to studs and temporarily hold in place with galvanized staples or roofing nails.
2. Vertical butt joints must be staggered a minimum of one stud space from adjacent courses and must occur directly over studs.
3. Install Weather Barrier horizontally over the Polyisocyanurate boards and fasten to the studs.

## **Lath Installation Instructions**

### **Wire Fabric or Metal Lath**

1. Apply the metal reinforcing fabric or lath straight without buckles or sagging.
2. Staple or screw 6" o.c. depending on the substrate.
3. Fasteners for the lath must penetrate 1-inch minimum into the wood studs.
4. Control joints, corner beads and all metal trim shall be installed as specified by the architect, designer or builder.

## **Teifs One-Coat Stucco Application Instructions**

### **Mixing**

1. Mix 180-250 (maximum 2 1/2 cubic feet) lbs. of sand to a 80 lb. bag of TeifsONE-COAT STUCCO. Add dry mix to 4-7 gallons of clean potable water.
2. Allow mixing for five to ten minutes to obtain workable stucco. Do not temper.

### **Application**

1. Apply with a trowel or machine sprayer over metal or wire lath to an approved substrate. Apply the mixture in one or two coats to a minimum thickness of 3/8".
2. Stucco shall be interrupted at joints, openings and junctions of plane.
3. Maintain a wet edge.
4. Apply cement/sand finish texture over the base coat as soon as it has set enough to accept the finish without disturbing the base.

### **Moist Curing**

1. Moist curing is recommended when the ambient temperature is 77 °F or higher and/or the ambient relative humidity is below 70% and the conditions are windy.
  - a. Moist cure intermittently for a period of 24-48 hours using a fine mist of clean water; do not saturate.
  - b. Moist cure only after the basecoat is set enough so it will not wash it off the wall.

### **Non-Vertical Surfaces (Parapets, Window Sills, etc.)**

*Teifs One-Coat Stucco is not recommended for tops of fences, railings or parapets.*

### **Design**

1. Must be sloped so that no standing water is allowed and so that any moisture may be allowed to drain to the exterior. Minimum slope is 6:12.
2. Non-vertical surfaces must be designed such that the sheathing and framing is protected from water penetration.
  - a. Apply TeifsBASE STAYDRY and TeifsLASTIC COATING to the horizontal surface  
or
  - a. Apply a self-healing, self sealing, peel and stick membrane and design so that any moisture is allowed to drain to the exterior.
3. *For systems over tongue and groove insulation board, non-vertical surfaces require TeifsBASE STAYDRY and TeifsLASTIC COATING with or without peel and stick waterproofing membrane.*

### **TeifsBASE STAYDRY**

1. Mix with Type I - II Portland Cement 1:1 ratio by weight. A small amount of potable water may be added.
2. Apply a 1/8" (3.2 mm) thick layer of TeifsBASE STAYDRY. Two coats may be necessary to ensure 1/8" thickness and a waterproof coating.
3. Allow to dry and follow with TeifsLASTIC COATING.

### **Peel and Stick Membrane**

1. Apply primer as needed or specified by the product manufacturer.
2. Apply peel and stick membrane to the entire non-vertical surface according to the manufacturers instructions and in a manner that allows for any moisture to drain to the exterior.

# Teifs Finish Coats

## Application Instructions

### Surface Preparation

1. Surfaces should be thoroughly cured and moisture content lowered to an acceptable level prior to application.
2. Surface must have a pH of 6-12.
3. TeifsONE-COAT must be primed. Please follow these guidelines:
  - 3-7 days wet cured: 1 coat of TeifsQUIKCURE required before application of Coatings or Finishes.
  - Greater than 7 days wet cured: 1 coat of TeifsPRIME or Teifs QUIKCURE required before application of Coatings or Finishes.

### TeifsFLEX FINISH

1. Mix TeifsFLEX FINISH thoroughly until a workable consistency is achieved. Do not overmix as this may cause air entrapment. A small amount of water may be added to improve workability. Always add the same amount of water to each pail to ensure consistent color and texture.
2. Apply TeifsFLEX FINISH over the reinforced base coat using a stainless steel trowel. Cuarzo and Piedra Grande finish shall be installed and leveled to a uniform thickness no greater than the largest aggregate. Tejas and Tejas Fine shall be applied at a thickness of 1 to 1 1/2 times the aggregate size.
3. Avoid applying finish in direct sunlight.
4. Texture is achieved by a uniform trowel motion to match the approved sample. All finishes should be installed continuously, maintaining a wet edge to prevent cold joints.
5. Do not introduce water to the wall before finish coat is dry, as this may affect color consistency. Each mechanic must use the same tools and motion to ensure a consistent texture. Remember, texture is color and color is texture.

### TeifsLASTIC COATING

1. Mix TeifsLASTIC COATING thoroughly until a workable consistency is achieved. A small amount of water (up to 10%) may be added to improve workability. Always add the same amount of water to each pail to ensure consistent color and texture.
2. Apply with a brush, 3/4" nap roller or spray equipment.

### TeifsLASTIC FINISH

1. Mix TeifsLASTIC FINISH thoroughly until a workable consistency is achieved.
2. Apply the TeifsLASTIC FINISH over Teifs ONE-COAT using a stainless steel trowel. Grande and Swirl finish shall be installed and leveled to a uniform thickness no greater than the largest aggregate. Fine, and Medium Finish shall be applied at a thickness of 1 to 1 1/2 times the aggregate size.
3. TeifsLASTIC Liberty – install a coat slightly thicker than 1/16". Texture may be achieved by using a clean plastic float and moderate pressure in a consistent motion. Texture may also be achieved by adding more TeifsLASTIC Liberty to the Stucco. The thickness must not exceed 1/4".

### TeifsCOAT

1. Mix TeifsCOAT (smooth or texture) thoroughly until a workable consistency is achieved. Do not over-mix as this may cause air entrapment.
2. Apply TeifsCOAT with brush, spray, roller, or spray and backroll.

### Teifs eKOTE

1. eKOTE Elastomeric Coating: Apply according to TEIFSLastic COATING, above.
2. eKOTE Elastomeric Finish: Apply according to TeifsLASTIC FINISH, above.
3. eKOTE Finish: Apply according to TeifsFLEX FINISH, above.

### NOTES:

*Do not apply a Teifs finish in any moving joint that is to receive sealant. Certain static joint applications utilizing fillet bead caulking may be applied to the finish coat. See Teifs Installation Guidelines for examples.*

**CAUTIONS AND LIMITATIONS:**

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**WARNING:**

TEIFS offers a variety of wall systems that include weather barrier and drainage options, to better protect the wall assembly. TEIFS cannot be responsible for deterioration of the substrate, mold, mildew and wood rot due to water intrusion or entrapment from causes such as improperly installed windows; windows that leak at the miter joints, mullions, or through improperly installed glazing; improper flashing, lack of flashing or use of improper flashing materials; use of improper sealants; or inadequate specifications, details or installation of the TEIFS WALL SYSTEM. Sealants and flashing will also deteriorate over time if not maintained. Maintenance of the TEIFS WALL SYSTEM is required.



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