

# Teifs WEATHERSEAL

*A Pure Acrylic Waterproof Air Shield and Protective Coating for the TeifsAirtight and TeifsWeathertight Wall Systems.*

## Advantages

- *Waterproofs the substrate*
- *Gives additional protection to flashing and openings*
- *Formulated to last the life of the building*
- *Holds a uniform waterproof protective coating behind the insulation board*
- *Prevents air infiltration*
- *Meets requirements of National Research Council of Canada for the top (Type III) air shield*
- *Improves cooling and heating capability.*



*TeifsWEATHERSEAL can be troweled, roller applied or sprayed over almost any substrate, including Dens GLASS GOLD, plywood, gypsum sheathing, concrete, concrete blocks or other approved substrates to provide a barrier against air and moisture penetration. It forms a waterproof membrane that creates a Type III barrier and enhances the insulation value when used with Teifs Weatherproof Systems (TeifsWEATHERTIGHT and TeifsAIRTIGHT).*

*May also be used as an acrylic-based adhesive.*

Member of:



# Teifs WEATHERSEAL

A 100% Acrylic Air Shield and Protective Coating for TeifsAIRTIGHT and TeifsWEATHERTIGHT

## DESCRIPTION

TeifsWEATHERSEAL is a special, flexible 100% acrylic air barrier and waterproof protective coating. This fiber-reinforced coating is designed to protect the substrate.

## PROPERTIES

### Coverage

- Five gallon pail covers 140-160 square feet.
- May be applied in one or two coats to achieve the minimum recommended thickness of 1/16" (63 mils) wet or 1/24" (42 mils) dry.

**TeifsWEATHERSEAL will meet or exceed the following test results:**

### Freeze-thaw (9ASTM C67)

-No detrimental effects after 60 cycles.

### Water Resistance (ASTM D2247)

-No cracking, erosion, or other detrimental effects after 14 days.

### Water Vapor Transmission (ASTM E96)

-16.5 gms./m<sup>2</sup> per 24-Hr.

### Air Leakage (ASTM E283)

-004/s+m<sup>2</sup>, Type III Barrier Classification

### Water Penetration (ASTM E331)

-No penetration at innermost plane of wall at 6.24 psf pressure differential.

### Hydrostatic Pressure Resistance (Lab Procedure)

-12" -No penetration

### Tensile Bond Strength (ASTM C 297)

-OSB, Plywood, Gypsum Board, Dens-Glass Gold, Concrete, Cement Board: ≥ 20 psi

-Sheet Metal, Aluminum, PVC, Copper: >100 psi

-With TeifsBASE, TeifsADHEEZE on substrates above: >18 psi

-As Weather Barrier/Adhesive: OSB, Plywood, Gypsum Board, Dens-Glass Gold, Concrete, Cement Board: ≥ 20 psi

## APPLICATION PROCEDURE

### Surface Preparation

- WEATHERSEAL is to be applied over exterior grade gypsum sheathing or other approved substrates for Teifs Weatherproof Systems.
- The sheathing must be flat, within 1/4" in any 4" radius.
- For application of WEATHERSEAL, surface and air temperature must be at least 4 °C (40 °F) and must remain at this temperature for at least 24 hours.
- To protect the wall from weather or other damages, constant protection is recommended until base coat, finish coat, permanent flashings, adhesive, protective coating, sealants, etc. are completed.

## APPLICATION

- Mix WEATHERSEAL thoroughly using a paddle mixer and drill.
- WEATHERSEAL may be trowel, roller or spray applied using an airless sprayer. Contact Teifs for details.
- Apply 4-inch strips of reinforcing fabric to all sheathing joints, inside and outside corners, and all exposed edges at terminations.
- Embed reinforcing mesh by applying TeifsWEATHERSEAL 4-inches of each side of the joint and embed the reinforcing

mesh with a stainless steel trowel so that the color of the mesh is not visible.

- 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).
- Ensure that the TeifsWEATHERSEAL laps onto all tracks and flashing to allow for any water to be drained into the tracks/flashing and out of the wall.

## APPLICATION AS AN ADHESIVE

- Apply with a 3/8" notched trowel to the back of the insulation board.
- TeifsWEATHERSEAL should completely cover the surface area with full ribbons of adhesive.
- The ribbons should be of uniform thickness and reach the edges of the board.
- Immediately place the insulation board firmly onto the clean, dry substrate.
- Apply the insulation board to the wall with firm pressure to the entire surface. Sufficient pressure must be applied to flatten the adhesive ridges. Do not tamp the face of the insulation board.
- Use a sliding motion in a horizontal bond pattern and install the insulation board from the bottom to the top of the wall.
- Make sure the insulation board joints do not align with the sheathing joints.
- Make sure there are no gaps or TeifsWEATHERSEAL between insulation boards. All edges should abut tightly.
- Periodically, check adhesion by removing a board. The insulation board will be hard to remove, and TeifsWEATHERSEAL will be on both the substrate and the insulation board. Reinstall after checking adhesion.
- Temporary fasteners may be used while installing the insulation board, but should be removed very carefully to avoid damage to the insulation boards.
- Use only on surfaces that are sound, clean, dry, unpainted, and free from any residue that may affect the ability of the materials to bond to the surface.

## APPLICATION AS A WEATHER BARRIER/ADHESIVE COMBINATION (approved on a job per job basis):

1. TeifsWEATHERSEAL
  - a. Install all flashings and tracks according to application instructions.
  - b. Install strips of reinforcing mesh to all sheathing joints, over the legs of accessories, intersections of dissimilar materials or any other break in the substrate that will require the Weatherseal to bridge a gap.
  - c. Spray the Weatherseal onto the surface of the wall at a minimum thickness to completely cover the substrate using a large airless pump.
2. Insulation Board
  - a. While the Weatherseal is still wet, install the 2'x4' pieces of insulation board onto the Weatherseal.
  - b. Place the EPS onto the wet surface and gently slide it into place ensuring that Weatherseal is covering the back of the EPS. Apply firm pressure over the entire board surface to ensure contact.
    - i. Install in a running bond pattern beginning at the base of the wall and make sure the corners are straight and plumb and all inside and outside corners shall be interlocked.
    - ii. "L" shaped pieces of Insulation Board shall be used at corners of openings.
    - iii. Joints between Insulation Board shall be tight with

no gaps. If gaps occur at intersections of Insulation Board, slivers of insulation shall be used to fill gaps.

- iv. Allow the adhesive applied to Insulation Board to dry before proceeding, this depends on temperature and humidity but generally takes 12 hours.
  - v. Once Insulation Board is in place and adhesive has dried, the surface shall be rasped smooth so that all irregularities in the EPS board are removed.
  - vi. Install aesthetic joints at this time, ensuring that 3/4 inch of flat Insulation Board is left at the base of the joint.
- c. Install Base coat, Reinforcing Mesh and finish according to Application Instructions.

## LIMITATIONS AND CAUTIONS

### Drying Time

- The drying time of the WEATHERSEAL depends on the air temperature, relative humidity and wind conditions.
- Work should be protected from rain for at least 24 hours.

### Clean Up

While WEATHERSEAL is still wet, clean tools with water.

### Storage

Seal tightly and store at 4 °C (40 °F) or above. Do not store in direct sunlight.

**WARRANTY:** TeifsWEATHERSEAL comes with a written five-year limited material warranty. Contact Teifs for full details.

### Technical and Field Services - Available upon request.

*Note: Teifs provides a variety of products for building superior walls; applicators must be sure they are using the appropriate Product Bulletin and/or Guide Specifications.*

**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 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.



220 Burlleson, San Antonio, TX 78202  
800-358-4785 Fax: (210) 472-2946  
www.teifs.com

ParexLahabra Inc. Corporate Office  
4125 E. La Palma Ave, Suite 250  
Anaheim, CA 92807

Phone: (714) 778-2266 Fax: (714) 774-2074

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This information is designed to guide you and has been conscientiously compiled according to the latest state of our technology. No liability can be accepted in connection with the use of the product because of the great variety of applications and working conditions.