

## PRODUCT DATA SHEET

# SikaWall®-4110 Tersus Hydrophobic Coating

## Smooth Hydrophobic Coating

### PRODUCT DESCRIPTION

A 100% modified acrylic coating designed to provide both water repellence and enhanced resistance to environmental soiling. The water repellent properties of the coating make the surface hydrophobic as well as more resistant to mold and mildew. When rain water contacts the surface, it beads and carries away dirt, soil and debris in its pathway. The built in anti-soiling properties of the coating resist dirt and staining reducing maintenance costs and extending a building's aesthetic appeal.

### USES

Provides enhanced protection and an aesthetically pleasing surface color for a variety of wall surfaces. Can be used to change or refresh the appearance of exterior above grade vertical walls and overhead surfaces of new or existing structures.

### CHARACTERISTICS / ADVANTAGES

- Hydrophobic properties of coating repel water and dirt for long-lasting appearance.
- Dirt-resistant nature of coating helps reduce exterior maintenance costs.
- 100% modified acrylic formulation provides long-term durability and weather resistance.
- Vapor permeable to permit water vapor to escape.
- Adhesion to existing textured finish and concrete results in a tight, durable bond.

### TECHNICAL INFORMATION

| Flexural Strength         | METHOD<br>Flexibility<br>ASTM D522 | CRITERIA                            | RESULT                                    |
|---------------------------|------------------------------------|-------------------------------------|-------------------------------------------|
|                           |                                    | Report Value-7 mils wet Application | No cracking 1/2" mandrel at 40°F and 70°F |
| Tensile Adhesion Strength | ASTM D7234                         | Report Value                        | 500 psi @ 28 days (concrete)              |

|                                             |                                                                                            |                                                                  |                                                                                               |
|---------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Resistance to Weathering</b>             | <b>Dirt Pickup Resistance</b><br>Miami Dade County TAS<br>143-95 section 7.8<br>(modified) | Report % Reflectance                                             | >90% reflectance retained                                                                     |
|                                             | <b>Dirt Collection</b><br>ASTM D3719                                                       | 61 days at 45° South Exposure; report dirt collection index (Dc) | Dc Index = 98.0 (100 = Best Performance)                                                      |
| <b>Behavior after Artificial Weathering</b> | ASTM G155<br>Accelerated Weathering                                                        | 2000 hours,<br>No Deleterious Effects                            | Pass                                                                                          |
| <b>Water Vapor Transmission</b>             | ASTM E96 (Wet Cup)                                                                         | Report Value                                                     | 25 Perms                                                                                      |
| <b>Microbiological Resistance</b>           | ASTM D5590                                                                                 | 30 day Exposure                                                  | Pass - No fungal growth                                                                       |
| <b>Resistance to wind-driven rain</b>       | ASTM D6904                                                                                 | 98 mph Wind Driven Rain                                          | Pass, no water penetration<br>1 coat with SikaWall-15 Tinted Primer<br>2 coats without primer |

## PRODUCT INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                         |                 |                                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------|
| <b>Product Declaration</b>                     | The hydrophobic effect is not immediate. It develops approximately 30 days after application through weathering and UV exposure. The time may vary based on environmental conditions and UV exposure.                                                                                                                                   |                 |                                                        |
| <b>Packaging</b>                               | 5-gallon pail (19-liters) - 55 lbs (25 kg)                                                                                                                                                                                                                                                                                              |                 |                                                        |
| <b>Shelf Life</b>                              | Two (2) years, when properly stored in original container.                                                                                                                                                                                                                                                                              |                 |                                                        |
| <b>Storage Conditions</b>                      | <ul style="list-style-type: none"> <li>Store in a cool, dry place protected from freezing, extreme heat and direct sun. Store at no less than 40°F (4.5°C).</li> <li>Do not stack pallets.</li> </ul>                                                                                                                                   |                 |                                                        |
| <b>Color</b>                                   | Available in a wide variety of standard and custom colors.                                                                                                                                                                                                                                                                              |                 |                                                        |
| <b>Density</b>                                 | <b>METHOD</b>                                                                                                                                                                                                                                                                                                                           | <b>CRITERIA</b> | <b>RESULT</b>                                          |
|                                                | ASTM D1475                                                                                                                                                                                                                                                                                                                              | Report Value    | 11.8 lbs/gal (1.41 Kg/L)                               |
| <b>Volatile organic compound (VOC) content</b> | ASTM D3960 (based in part on EPA method 24)                                                                                                                                                                                                                                                                                             | Report Value    | <50 g/L (0.417 lbs/gal) less water and exempt solvents |
| <b>Coverage</b>                                | 900-1,400 ft <sup>2</sup> at 5-8 wet mils (single coat)<br>Some applications may require two coats.<br>Coverage may vary depending on the texture, porosity and color of the existing substrate.                                                                                                                                        |                 |                                                        |
| <b>Ambient Air Temperature</b>                 | <ul style="list-style-type: none"> <li>When temperatures less than 40°F (4.5°C) prevail, provide supplementary heat during installation and drying period for at least 24 hours after installation and until dry.</li> <li>Do not apply in ambient temperature above 100°F (38°C) or surface temperature above 120°F (49°C).</li> </ul> |                 |                                                        |
| <b>Substrates</b>                              | <ul style="list-style-type: none"> <li>EIFS</li> <li>Stucco</li> <li>Acrylic, Hydrophobic and Cementitious Textured Finish</li> <li>Unit Masonry</li> <li>Concrete</li> </ul>                                                                                                                                                           |                 |                                                        |

- Existing Coatings

## Drying Time

- Under average conditions of 70 °F (21 °C) and 50% Relative Humidity
- Typically dry to touch within 2 to 4 hrs.
  - To recoat, allow minimum of 6 hours drying time per coat
  - Lower surface or air temperatures and higher relative humidity will extend the drying time.
  - Protect coating from rain or other precipitation and temperatures less than 40°F (4.5°C) for a minimum of 24 hours and until dry.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

### MIXING

Mix the contents of the coating pail with a low speed drill and paddle mixer until thoroughly blended.

- Additives are not permitted.
- Close container when not in use.
- Clean tools with soap and water immediately after use.

### SURFACE PREPARATION

Substrates must be clean, dry, sound and free of loose material, releasing agents, paint, efflorescence, contaminants and other coatings. Cracks or voids must be filled with Sika Thorocoat®-748 or appropriate, compatible material to provide a solid substrate prior to application of SikaWall Tersus Hydrophobic Coating. Ensure patching material is dry prior to application of coating. If SikaWall-15 Tinted Primer or SikaWall-10 Stucco Prime is used, ensure primer is dry to the touch prior to application of coating.

Note: Apply a 4' x 4' (1.2 m x 1.2 m) test area to verify acceptable color and adhesion before proceeding with any project. Adhesion shall be measured by ASTM Test Method D 3359 Procedure A, with a value of 4A or greater.

- Weathered SikaWall Tersus Hydrophobic Coating: recoated with SikaWall Tersus Hydrophobic Coating or acrylic coatings after cleaning the surface with a household detergent and rinsing with water. Surface must be thoroughly rinsed with clean water to remove all traces of detergent. Check surface for any signs of beading, if present repeat cleaning process until gone. Allow surface to dry completely before recoating. Recoat within 48 hours, weather permitting.
- Existing Coatings and Finishes: Check adhesion of old coatings according to ASTM D 3359, Measuring Adhesion by Tape Test Method A. Remove any blisters or delaminated areas and sand edges to smooth rough areas and provide transition to old paint areas. If needed, apply SikaWall Tinted Primer.
- Unit Masonry: Allow to cure prior to application of primer or coating. When needed, apply a levelling coat of Sika Facades base coat to provide a smooth surface and minimize the likelihood of mortar

joint read through.

- Stucco (New): Allow to cure a minimum of 6 days prior to application of primer or coating.
- Stucco (Existing): Treat cracks greater than 1/32" with Sika Thorocoat®- 746 Knife Grade or SikaWall® FL -748 patching compounds. Treat cracks larger than ¼" as expansion joints and fill with appropriate Sika sealant

### APPLICATION

One coat application: First apply SikaWall Tinted Primer per product bulletin instructions then apply one coat of SikaWall Tersus Hydrophobic Coating.

Two coat application: Allow the first coat to dry prior to application of the second coat.

- Maintain proper uniform wet-film thickness during application to ensure the performance characteristics desired.
- Care should be taken when applying it to heavily textured substrates. Fluted masonry and raked joint substrates will require hand detailing to ensure an even and successful application.
- For uniformity of color and texture, application techniques must be consistent throughout the project.
- Confirm sealant adhesion prior to application of sealant primer and sealant to SikaWall Tersus Hydrophobic Coating.

### Roller

Apply coating with a 3/8"-1/2" (10-13 mm) nap roller. Completely saturate the roller and keep it loaded with the coating to build the required mil thickness, never dry roll. Cross roll, maintaining a wet edge, to achieve uniform thickness. Backroll in one direction for a consistent appearance.

### Spray

Airless spray equipment is available for spraying Tersus Color Coat. Reference *Sika Facades Coatings Spray Equipment Recommendations Technical Bulletin* or contact equipment manufacturer for further recommendations. Backrolling in one direction after spray application is recommended to achieve uniform texture and film thickness.

### Brush

Application by brush is recommended only for small inaccessible areas, e.g., on touch-ups. Use only a nylon brush.

### LIMITATIONS

1. Do not use on interior applications, below-grade applications, or for immersion service.

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2. Color formulas containing organic colorants are more prone to fading in exterior applications.
3. Do not apply materials to frozen surfaces.
4. Efflorescence of Portland cement based substrates such as concrete, masonry units and stucco may cause staining or discoloration on the surface of applied coating. Efflorescence is neither caused nor prevented by SikaWall Tersus Hydrophobic Coating.
5. Do not exceed 8 mils wet film thickness per coat.
6. Do not thin the material.
7. Do not use as a replacement for textured finish on Sika Facades systems or for touch-ups.
8. Samples of SikaWall®-4110 Tersus Hydrophobic Coating are available for color approval only. Samples for job approval must be made in the field by the applicator and approved prior to ordering. Apply a 4 ft x 4 ft (1.2 m x 1.2 m) test area to verify acceptable color and adhesion before proceeding with any project.

Consult Sika Facades Technical Services Department at +1 (800) 589-1336 for specific recommendations concerning all other applications.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## MAINTENANCE

### CLEANING

Clean coating with water only. The use of detergents or soaps will degrade the hydrophobic effect. After detergent cleaning, the hydrophobic effect will reactivate in approximately 30 days time, depending on exposure conditions.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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