

# UltraSpan™ UST/USM

UST – Pre-Cured Silicone Transition Sheet

USM – Pre-Cured Silicone Molded Corners

## Product Description

UltraSpan UST2200 transition sheet and USM corners are low modulus pre-cured silicone rubber accessories for flashing and transition applications in the Elemax™ 100% silicone air & water-resistive barrier system.

## Key Features and Typical Benefits

### Performance

- **Silicone Durability** – UltraSpan UST/USM Pre-cured silicone rubber exhibits excellent long-term resistance to natural weathering, including: ultraviolet radiation, high and low temperatures, rain and snow, with negligible change in elasticity.
- **UV Resistant** – May be left exposed indefinitely to UV.
- **Thermal Stability** – Remains elastic over a wide temperature range. Does not harden or become brittle under very cold conditions and does not soften or melt in high heat.
- **Flexible** – Low modulus UST/USM silicone rubber imparts low strain to moving substrate surfaces and maintains flexibility at transition areas and board joints.
- **Permeable** – Transition silicone is vapor permeable allowing the entire air & water barrier system to breathe, not just the coated wall areas.

### Application

- **Silicone Compatibility** – Full chemical and adhesive compatibility with all Elemax AWB silicone sealants, liquid flashing, and coatings.
- **Contact Verification** – Product is currently available in translucent to allow easy visual confirmation of continuous sealant/liquid flashing contact.

### Aesthetics

- **Product Offering** – UltraSpan UST/USM silicone rubber is available in multiple standard widths and shapes. Custom widths and shapes are also available.

### Potential Applications

UltraSpan UST2200 silicone strips/sheets are excellent products to consider for:

- Transitioning between differing and/or intersecting construction materials
- Flashing at rough openings, sheathing joints, terminations and adjacent materials
- Treating expansion joints and drift joints
- USM silicone corners are excellent products to consider for:
  - Protecting and sealing rough opening corners
  - Creating flexible sill pans and end dams

## Packaging

UltraSpan UST2200 silicone strips are currently available in 100 foot rolls. Standard widths are: 3", 6" and 12" (76 mm, 152 mm and 305 mm). Custom UST silicone sheets are currently available in flat sizes up to 48 inches (1220 mm) wide. Minimums apply. USM silicone corners come 24 pieces per box.

## Colors

UltraSpan UST2200 silicone strips and USM molded corners are currently available in translucent and black.

## Typical Physical Properties

Typical physical property values of UltraSpan UST/USM pre-cured silicone transition sheet & molded accessories as supplied and cured are set forth in the tables below.

### Typical Properties – Supplied

| Property    | Value <sup>(1)</sup>        | Test Method |
|-------------|-----------------------------|-------------|
| Consistency | Elastomeric silicone rubber |             |

### Typical Properties - Cured

| Property                  | Value <sup>(1)</sup> | Test Method |
|---------------------------|----------------------|-------------|
| Hardness                  | 35 +/- 5             | ASTM D2240  |
| Ultimate Tensile Strength | 765 psi (5.38 MPa)   | ASTM D412   |
| Ultimate Elongation       | 599%                 | ASTM D412   |
| Permeance (UST)           | 6.42                 | ASTM E96    |
| Tear Strength             | 70 ppi               | ASTM D624   |
| Service Temperature Range | +400°F (204°C)       |             |

(1) Typical properties are average data and are not to be used as or to develop specifications.

## Installation

- UltraSpan UST/USM silicone rubber is not self-adhesive. These products are adhered to the assembly by embedding them into SilPruf™ sealant, SWS™, or Elemax™ 5000 Liquid Flashing, or in some cases (in-plane transitions only), with Elemax 2600 AWB coating.
- Staples may be used to assist in positioning the UST/USM silicone rubber in place, when applicable.
- UltraSpan UST/USM silicone rubber is easily cut or trimmed using scissors.

Note: UltraSpan UST/USM silicone rubber is not recommended:

- Where frequent abrasion or physical abuse may be encountered or for below grade applications.

## Surface Preparation

- Surfaces must be clean, dry and sound. For additional surface preparation information, refer to the technical data sheet of the sealant, liquid flashing, or coating being used to apply the UltraSpan UST/USM silicone rubber.

## UltraSpan USM Transition Sheet

- Measure and cut the UST transition sheets into manageable lengths.
- Dry fit the UST transition sheet and trim if necessary while ensuring sufficient length for required bonding allowances.
  - **When using sealant Elemax 5000 Liquid Flashing to adhere UST silicone sheets**, apply the sealant/liquid flashing and trowel thin to an area slightly larger than the UST silicone sheet to be bonded. Using hand pressure, seat the UST transition sheet into the sealant/liquid flashing immediately so it is applied before the sealant/liquid flashing begins to form a skin. Small adjustments to the UST silicone sheet may be made at this time, but complete lifting of the seated material and reapplying to the substrate should be avoided. Use a suitable roller to predominately embed the UST silicone sheet into the sealant/liquid flashing and work entrapped air out towards the edge to bond it into its final location. All edges of the UST silicone sheet must be firmly embedded in sealant/liquid flashing. If necessary, apply additional sealant/liquid flashing to the edges of the UST silicone sheet, and trowel smooth.
  - **When using Elemax 2600 AWB coating to adhere UST transition sheets**, apply a first coat by roller in sufficient width and slightly larger than the UST silicone sheet area to be bonded. Press UST silicone sheet(s) into the coating while still wet or tacky. Apply a second coat of Elemax 2600 AWB immediately over the UST silicone sheet to embed it into the first applied coat. Note: Only use Elemax 2600 AWB to bond UST silicone sheets on flat surfaces. When applying UST silicone transitions around or into corners, use sealants/liquid flashing as the adhesive.

## Installation-continued

### UltraSpan USM Molded Corners

- Check for fit of pre-molded corners noting or marking extent of part in final position. Apply sealant/liquid flashing and trowel thin to an area slightly larger than the USM to be bonded. Using hand pressure seat the USM into the sealant/liquid flashing immediately so it is applied before the sealant/liquid flashing begins to form a skin. Small adjustments to the USM may be made at this time. Lap neighboring UST/USM silicone rubber 2" minimum and sequence installation of UST/USM silicone sheets to provide shingled laps.
- Apply a small amount of silicone sealant/liquid flashing to the edges of the USM and trowel smooth making sure that all edges are fully embedded with silicone sealant/liquid flashing.

## Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

## Product Safety, Handling and Storage

Customers considering the use of this product should review the latest Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Safety Data Sheets are available at [www.siliconesforbuilding.com](http://www.siliconesforbuilding.com) or, upon request, from any MPM representative. Use of other materials in conjunction with MPM sealants products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

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