

# TREMCO® Spectrem Restoration Overlays

Silicone Dense Rubber Extrusions

www.tremco.com.au

## DESCRIPTION

Spectrem Restoration Overlays are dense rubber extrusions used for restoration applications. The patented, innovative design solution provides long-lasting performance and aesthetics. These overlays are typically bonded with Spectrem 1 Silicone Sealant to provide a watertight seal.

## USAGE/PURPOSE

Spectrem Restoration Overlays are custom designed to restore aging and/or compromised glazing systems including:

- Skylights
- Sloped glazing
- Zipper wall/ lockstrip systems
- Pressure bar systems

## FEATURES & BENEFITS

- Cost effective alternative to traditional dry glazing repair method involving total removal and replacement of the system components.
- Reduced time and labour versus other repair methods.
- Less sealant versus other repair methods.
- Easy installation and clean-up.
- Better long-term performance against air and water leakage compared to traditional dry glazing repair method.
- Colour fast formula resistant to the effects of UV exposure.
- Encapsulated wet seal is protected from exposure to the elements.
- High movement capability.
- Better overall aesthetic with sealant minimally visible providing straight sight lines on the interior and exterior for a clean appearance.
- All joineries, screw heads and other penetrations are covered.
- Wide operational temperature range.
- Non-corrosive and corrosion resistant.
- Allows for ease of glass infill/other infill replacement for on-going maintenance.



## COLOURS & SIZES

Spectrem Restoration Overlays colours and sizes are generally custom manufactured with a 12-16 week lead time.

## LIMITATIONS

- Do not apply on damp or contaminated surfaces.
- Spectrem Restoration Overlays should not be used under the following conditions:
  - Not intended for water immersion.
  - In association with building materials that release oils, plasticisers or other material.

## GREEN STAR COMPLIANT

Yes

TYPICAL PHYSICAL PROPERTIES			
PROPERTY	TEST METHOD	60 DUROMETER	70 DUROMETER
Shore "A" Hardness	ASTM D2240	65	70
Compression Set, 22hr @ 100°C, Ozone Resistance, 100 mPa	ASTM D395	12.5%	11%
Ozone Resistance, 100 mPa 100hr @ 40°C, 20% Elongation	ASTM D1149	No Cracks	No Cracks
Tensile Strength	ASTM D412	7.8 MPa	7.4 MPa
Elongation @ Rupture	ASTM D412	235%	167%
Tear Strength	ASTM D624	18.7 kN/M	21.2 kN/M
Brittle Temperature @ -40°C	ASTM D746	Pass	Pass

Spectrem Restoration Overlays

## PURPOSE & SCOPE

The purpose of this document is to establish guidelines for installation of Spectrem Restoration Overlay. The techniques involved may require modifications to adjust for jobsite conditions. Consult your local Tremco Sales Representative or Tremco Technical Services for specific design requirements. This document will provide the necessary instructions for installation of Spectrem Restoration Overlay to qualify for a manufacturer's warranty.

## IMPORTANT NOTES

Always perform project-specific field testing to verify adhesion of the sealant to the substrates. Consult the application instructions provided in the Spectrem 1 data sheet to determine proper sealant application procedures. When applying Spectrem Restoration Overlay on a vertical surface, apply the Overlay in horizontal joints prior to applying in vertical joints. At intersections between vertical and horizontal joints, the vertical bridge joint will be applied in an overlapping fashion over top of the horizontal bridge joint. In an effort not to puncture the membrane, ensure additional sealant is applied over mechanical fasteners or other protrusions are located on the substrate along the sealant bond line. Do not puncture the membrane.

## SUBSTRATE PREPARATION

Surfaces must be sound, clean, and dry. Contact surfaces should be free of loose dirt, dust, oils, and any other contaminants. Tremco recommends that air temperature be 5°C or above before applying any sealant. If desired, apply masking tape along the edges of where the Overlay is expected to be installed. This will assist in reducing the visible sealant that will wet out during the application process.

## COMPATIBLE MATERIALS

Spectrem 1 is the recommended silicone sealant to be used as the adhesive; Spectrem 2 may be suitable for use in some circumstances, adhesion to the existing substrate must be confirmed before applying Spectrem 1 or Spectrem 2 silicone sealant.

## MATERIALS NEEDED

- A wire brush
- A sharp razor blade
- Masking tape
- Cleaning solvent (non-porous substrates only)
- Clean, dry, lint-free cloths
- Pressurized water system (optional)
- A compressed air line capable of dispensing pressurized air (optional)
- A roller at least as wide as the Spectrem Restoration Overlay extrusion being applied (optional)

## SEALANT & OVERLAY APPLICATION

- Apply a continuous bead of sealant in a straight line along the edge of the bonding substrate. The sealant should be sufficiently wide enough that when the Overlay is applied, the edges on the material are completely encapsulated in sealant.
- Unroll a length of Overlay approximately the length of the joint to be spanned. Install the Overlay material with caution to avoid stretching the extrusion as it is embedded into the sealant.
- As Spectrem Restoration Overlay is unrolled, ensure that a clean surface exists at the bonding area. If necessary, utilize the two-cloth cleaning method with isopropyl alcohol to clean the bonding surface of Spectrem Restoration Overlay.
- Align the Overlay over the joint so the edges align with the

sealant beads and the Overlay is uniformly spaced over the joint.

- Embed the Overlay in the beads of Spectrem 1 or Spectrem 2 and immediately use a roller to press the extrusion firmly into the silicone sealant. If a roller is unavailable or undesirable, a flat, hard material may be substituted and used to gently tap the face of the material, embedding the bonding surface into the sealant.
- Cut the Overlay extrusion at the end of the joint using a sharp razor blade, and remove masking tape to eliminate the excess sealant wetted out along the bond line.
- Sealant that has wetted out from beneath the extrusion may also be tooled to achieve the desired appearance. It is recommended to run a bead of Spectrem 1 or 2 along the sides of the installed Overlay and then tooled off to create a water and air tight seal.

## CLEAN UP

- Immediately after the application is complete, remove all excess sealant and smears adjacent to the joint with an approved solvent.
- Avoid contact between the cleaning solvent and the functional sealant bead prior to the sealant bead reaching a full cure. Cleaning solvent should come into contact with smears and excess sealant only.

## HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

## TECHNICAL SERVICE

TREMCO has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

## GUARANTEE/WARRANTY

TREMCO products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge.

Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.