
Technical Service Bulletin No. S-08-23

Tremco Spectrem 1 Silicone Sealant Adhesion and Compatibility with ExoAir TWF (Through wall flashing)

The purpose of this bulletin is to confirm acceptable application methods for Spectrem 1 neutral cure silicone sealant when used in direct contact with Tremco ExoAir TWF – Through Wall Flashing.

It is recommended by recognized industry standards AAMA 711 ‘Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products’ and ASTM E2112 ‘Standard Practice for Installation of Exterior Windows, Doors and Skylights’ that compatibility of dissimilar products intended for use in direct contact, including sealants and flashing, be confirmed prior to use.

CONTINUITY OF THE WEATHER BARRIER SYSTEM

The air and water seal continuity of the building envelope has become a recognized issue to help assure the hygrothermal performance of a building. The critical interface at a transitional area, where it is essential for unlike building components to meet and seal, has been identified as an area where the long term adhesion and compatibility must ideally perform for the life of the building.

To address this issue Tremco has performed adhesion and compatibility testing using accelerated weathering and elevated temperature conditioning to verify and confirm the acceptable use of Spectrem 1 silicone sealant with Tremco ExoAir TWF. Adhesion and compatibility of the Spectrem 1 silicone was performed on what would typically be the exposed or facing side of the Tremco ExoAir TWF. Contact of Spectrem 1 silicone with the adhesive side of the ExoAir TWF, while less typical in standard construction practices, has also been tested to confirm compatibility. Incompatibility can occur when the adhesive side of a self adhered flashing is placed in direct contact with a wet sealant, which can result in failure from the softening and liquification of the flashing adhesive. Compatibility of Spectrem 1 sealant with the adhesive side of the flashing was confirmed under recognized test exposure conditions and service temperature classifications for self adhered flashings including ‘Level 1’ for exposures up to 50°C (122° F), and ‘Level 2’ for exposures up to 65°C (149° F).

Application of Spectrem 1 to the facing surface of the Tremco ExoAir TWF

APPROVED: The adhesion and compatibility of Spectrem 1 is excellent on the facing of ExoAir TWF. Prior to application the surface of the ExoAir TWF must be clean and dry. Dry wipe the surface prior to sealant application to remove dust or contaminants. No primer is required.

Application of Tremco ExoAir TWF to Spectrem 1 (ExoAir TWF applied to wet or cured sealant)

APPROVED: The Spectrem 1 is fully compatible with the adhesive side of Tremco ExoAir TWF.

Please contact Tremco Technical Service at 866-209-2404 with any questions regarding this bulletin.