
PRODUCT DESCRIPTION

EnerSEAL® 340R reactive warm-applied sealant is a modified polyurethane IG perimeter barrier sealant that combines the ease of handling and speed of a single-component hot melt with the shear and heat resistance of a reactive polyurethane.

BASIC USES

EnerSEAL 340R has excellent adhesion to glass, foam spacer barrier films, plus aluminum, plated-steel, stainless steel, and composite IG spacers.

FEATURES & BENEFITS

- Single component & solvent free
- No mixing process required, hence no waste
- Suitable with both manual gunning and automatic applications
- Can be used in single seal or dual seal applications
- Warm-applied for ease of application and corner-closing
- Fast-setting for immediate IG handling and timely glazing of IG units
- Cures in the presence of moisture vapor; large strength gains in 24 hours
- Lower moisture vapor transmission rate than typical two-component thermosetting sealants and leading competitive reactive hot melts.

AVAILABILITY

Immediately available from your local Tremco Field Representative via Tremco Warehouses.

PACKAGING

46 gal (174 L) supplied in sealed, nitrogen-purged, straight sided, 55-gal (200-L) drums

COLORS

Black

STORAGE & SHELF LIFE

Store EnerSEAL in 340R in dry plant conditions; exposure to open moisture vapor or heat before use within heated-platen drum unloaders will reduce shelf life of 9 months.

APPLICABLE STANDARDS

EnerSEAL 340R when used with quality desiccant/spacer system(s) and keen workmanship will conform to ASTM E2190 and CAN/CGSB 12.8.

LIMITATIONS

- Do not use in structural glazing applications.
- Do not use in sloped glazing applications without Tremco technical review.
- Be sure that IG units fabricated with EnerSEAL 340R are glazed in accordance with industry guidelines such as IGMA's TM-3000.
- Never apply to wet or contaminated surfaces; glass and spacer bonding surfaces must be clean and dry prior to sealant application. Never dispense and apply in confined areas without adequate ventilation.
- Always use in application-fill depths sufficient for customer's intended performance life and durability requirements; in no case < 3/16".

SUBSTRATE PREPARATION

Glass surface must be cleaned with hot water over 120°F (50 °C) and mechanical washing equipment. Glass and spacer bonding surfaces must be clean and dry. Coated glass may require edge deletion, so consult your glass supplier for their recommendations.

APPLICATION

EnerSEAL 340R can be processed on any standard HOT MELT pump/sealer/extrusion machine currently used in the insulating glass industry. The product must be applied on a clean and dry substrate. The product must completely fill the sealing gap down the spacer bar (no air pockets). Care should be taken on sealing each corner and sealant should be pressed together while still molten by means of ENAPAD2 502 troweling pad, to prevent any gaps or holes (cold joints) in sealant at corners, which can lead to premature unit failure. The minimum thickness required of the sealing joint is > 3/16" (4.76 mm).

Recommended application temperatures for hand-gunning or automatic sealers are 257 °F to 302° F (125 °C to 150 °C).

It is important that sealant is applied within recommended temperature range, so it is advisable that application temperature be checked daily with a digital thermometer at dispensing point.

CLEAN UP

Excess sealant and smears are best removed from IGU with safety glass scrapers to hold the flat razor-blade. Where mechanical removal above is not possible, uncured material on plant manufacturing surface can be removed with acetone. Avoid heat guns, as they can overheat and generate fumes.

WARRANTY

A repair or replacement warranty is available on all Tremco products. Visit <https://www.tremcosealants.com/warranties/> for details.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL RESULTS
Type		Reactive, warm-applied, single-component polyurethane IG sealant
Color		Black
Solids		100%
Specific Gravity & Approximate lbs/gal		1.15 for about 9.6 lbs/gal
Moisture Vapor Transmission Rate	GBT29755-2013	0.25 g/M ² /day
Tensile Strength, Full Cure, 100% Elongation		320 psi (2.21 MPa)
Lap Shear Strength, 24 hr Cure, AI & Glass		60 psi (0.42 MPa)
Lap Shear Strength, Full Cure, AI & Glass		140 psi (1 MPa)

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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tremcosealants.com | 800.321.7906



Construction Products Group

3735 Green Rd. | Beachwood, OH 44122
800.321.7906 | tremcocpg.com