



TECHNICAL DATA SHEET

WILLSEAL® 250-R

Reinforced Horizontal Seal with
Traffic Grade Silicone

PRODUCT DESCRIPTION

Willseal® 250-R is a patent-protected expansion joint system that combines the performance and reliability of Willseal 250 with reinforcing members positioned beneath the sealant face to support higher point loads. This allows Willseal 250-R to excel at supporting high rates of pedestrian foot traffic.

Willseal 250-R consists of 3 construction elements: a pre-compressed foam core saturated with a hydrophobic acrylic emulsion, a factory applied coating of highway grade, fuel resistant silicone (other coatings available by special order), and a factory-incorporated reinforcing member positioned beneath the sealant face.

BASIC USES

Willseal 250-R has been engineered to perform in horizontal applications and excels in high foot-traffic areas. This unique reinforced-foam can be used in both interior and exterior joints. Acceptable applications for Willseal 250-R include primary horizontal expansion for vehicular traffic, primary horizontal expansion for pedestrian traffic, parking garages, stadiums, plaza decks, skyways, mall entrances, hospitals, and concourses.

FEATURES & BENEFITS

Willseal 250-R is specifically designed to provide a maximum seal in structures with shear and rapid movement. The reinforced members provide stability across the joint under pedestrian traffic.

- Positioned reinforcing members provide increased point load capability
- Ideally suited to handle heavy pedestrian traffic
- Surface load transfer
- Allows for up to $\pm 50\%$ movement
- Accommodates rapid rate of movement
- Excellent compression recovery
- Utilizes non-invasive anchoring
- Innovative patented design

Willseal 250-R is supplied in a pre-compressed state for ease of installation. Material will self-expand to fill the joint. Expansion time will vary based on humidity, temperature, and storage conditions for the prior 24 hours; may differ for wider, thicker material. Material will continue to expand and equalize in the joint.

The GREENGUARD Gold certification on Willseal 250-R ensures safety for use in the most sensitive indoor environments, such as hospitals and schools.

AVAILABILITY

Available in joint sizes from 1" to 4" sticks (6.5 ft lengths) from your authorized Tremco distributor, or any Tremco or Willseal Sales Representative. Custom sizes are available upon request. For more information contact Customer Service by phone at 800-274-2813 or email custserv@willseal.com.

COLORS

Available factory coated with traffic-rated silicone sealant in Concrete Grey, Highway Grey, and Traffic-Grade Black. Custom colors are available upon request. For more information contact Customer Service by phone at 800-274-2813 or email custserv@willseal.com.

LIMITATIONS

Avoid contact of Willseal 250-R with hydrocarbon solvents, solvent based paints, and corrosive chemicals. Will not adhere to surfaces contaminated by oil or grease. Concrete should clean, dry & sound. Do not install when substrate or ambient temperatures are below 40°F (4°C). Consult a Tremco or Willseal Sales Representative for extreme temperature installation information.

Store material in a dry, enclosed area, off the ground, and out of direct sunlight. Store material at a minimum of 68°F (20°C). If ambient storage temperatures fall below 50°F (10°C), warm material up to 68°F (20°C) for a minimum of 24 hours prior to installation, regardless of temperature at location of installation.

WARRANTY

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

TYPICAL PHYSICAL PROPERTIES		
PROPERTY	TEST METHOD	TYPICAL RESULTS
Foam Color		Black
Temperature Stability Range		-40 to 185 °F (-40 to 80 °C)
Ideal Storage Temperature		68°F (20°C)
UV Resistance	ASTM C793	Pass
	ASTM G155	Pass
	DIN 18542	Pass
Ultimate Elongation		Exceeds rated maximum extension without tension
Surface Temperate Range	ASTM C711	-40 to 190 °F (-40 to 87.7 °C)
Resistance to Compression Set	Full cycle tested in an environmental chamber through the state temperature stability range	No bleeding when compressed to minimum of claimed movement of normal size and when simultaneously heated to 190 °F for 3 hours
Compression Set	Full cycle tested in an environmental chamber through the state temperature stability range	Will not delaminate due to thermal shock or compression set
"Walking Feel" Deflection Resistance at 0.5"	Compared to 3 industry standard samples	250-R at 40lbs
		vs
		Industry Standard Samples average at 12.7lbs

US Patents:

No. 9739049

No. 9951515



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Hudson, NH 03051



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

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

W250RDS/0925

Tremco Construction Products Group (CPG) brings together Tremco CPG Inc. and its Dryvit and Nudura brands; Willseal; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc. and its Pure Air Control Services and Canam Building Envelope Specialists offerings; and Weatherproofing Technologies Canada, Inc.

