

Product Description

THC-901 is a multi-component, polyurethane sealant for horizontal expansion joints that includes a tintable base, curative packet, and a choice of 70 standard colors.

Basic Uses

THC-901 is a semi-self-leveling joint sealant that can handle sloped traffic areas up to 10%. THC-901 can be used in parking garages, plazas, terrace decks, floors and sidewalk joints.

Features and Benefits

- THC-901 can be used for exterior or interior use (with adequate ventilation).
- THC-901 is rated to take up to 25% extension and 25% compression of its originally installed width.

Availability

Immediately available from your local Tremco Field Representative, Tremco Distributor or Tremco Warehouse.

Coverage Rates

308 linear feet of joint per gal for a 1/4" X 1/4" joint. For specific coverage rates that include joint size, and usage efficiencies, visit our website usage calculator at www.tremcosealants.com.

Packaging

- 1-1/2- and 3-gal (5.7- and 11.4-L) kits. Each kit comes with pre-measured cans of curing agent. Universal Color Paks sold separately. Note: THC 901 (1.5/3 gal) 2/4 cans of curative.

Colors

THC-901 is available in 70 standard colors by using the Tremco Universal Color Paks. THC-901 is also available pre-tinted in Limestone or we can custom color match to virtually any color upon request.

Storage

Store THC-901 in original, undamaged packaging in a clean, dry, protected location with temperatures between 40 to 110 °F (5 to 43 °C).

Applicable Standards

THC-901 meets or exceeds the following specifications:

- U.S. Federal Specification TT-S-00227E, Class A, Type I
- ASTM C 920, Type M, Grade P, Class 25, Use T, M, & O
- USDA regulation for indirect food contact
- UL 2079 (ASTM E 1966), CAN-4-S115M

Limitations

- Do not apply Tremco THC-901 over damp or contaminated surfaces.
- Not intended for continuous water immersion.
- Always utilize the accompanying MSDS for information on Personal Protective Equipment (PPE) and Health Hazards.

Substrate Preparation

Surfaces must be sound, clean, and dry. All release agents, existing waterproofing, dust, loose mortar, laitance, paints, or other finishes must be removed. This can be accomplished with a thorough wire brushing, grinding, sandblasting or solvent washing depending on the contamination.

Tremco recommends that surface temperatures be 40 °F (5 °C) or above at the time the sealant is applied. If sealant must be applied in temperatures below 40 °F, please refer to the Tremco Guide for Applying Sealants in Cold Weather that can be found on our website at www.tremcosealants.com.

Priming

Where deemed necessary, use Vulkem Primer #191QD for porous surfaces, and TREMprime Non-Porous Primer for metals. Tremco always recommends that a mock-up or field adhesion test be performed on the actual materials being used on the job to verify the need for a primer. A description of the field adhesion test can be found in appendixes X1 of ASTM C 1193, Standard Guide for Use of Joint Sealants.

Application

Mix the color pak and curative in accordance with the mixing instructions noted on the pail. Continue mixing until there are no color striations within the sealant.

Apply with conventional caulking equipment, filling in the joint completely. Fill the joint completely from the backer rod up, and allow the sealant to self-level to a smooth, even finish.

The surface of THC-901 may need to be tooled slightly to obtain a desired finish. For a cleaner look, mask the sides of the joint with tape prior to filling.

Tremco recommends installing a mock-up to determine acceptability of color, texture and adhesion.

Joint Design

THC-901 may be used in any horizontal joint designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement, but not less than 1/4" (6 mm). THC-901 can be used on sloped surfaces up to 10%.

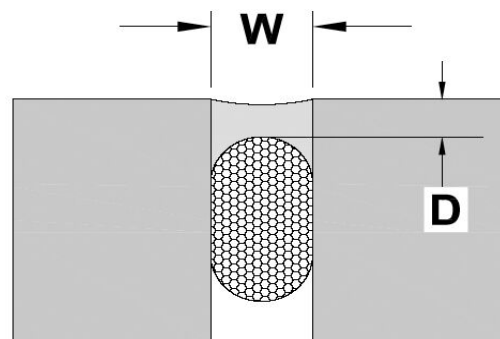
Joint Backing

Closed cell or reticulated polyethylene backer rod is recommended as joint backing to control sealant depth. Backer rod needs to be properly friction-fitted for use with self-leveling sealants to prevent leaking of sealant during cure.

Where depth of joint will prevent the use of backer rod, an adhesive backed polyethylene tape (bond breaker tape) should be used to prevent three-sided adhesion. All backing should be dry at time of sealant application.

Sealant Dimensions

W = Sealant width, D = Sealant depth



EXPANSION JOINTS - The minimum width and depth of any sealant application should be 1/4" by 1/4" (6 mm by 6 mm). The depth (D) of sealant

THC-901

Multi-Component, Polyurethane Sealant for Horizontal Expansion Joints

may be equal to the width (W) of joints that are less than 1/2" wide. For joints ranging from 1/2" to 1" (13 mm to 25 mm) wide, the sealant depth should be approximately one-half on the joint width. The maximum depth (D) of any sealant application should be 1/2" (13 mm). For joints that are wider than 1" (25 mm) contact Tremco's Technical Service Department, or your local Tremco field representative.

Cure Time

At 72 °F (22 °C) THC-901 can be opened to traffic in 3 days. As the temperatures decrease, the cure time will increase. A good rule of thumb is an additional 24 hr. for every 10 °F decrease in temperature.

Clean Up

Excess sealant and smears adjacent to the joint interface can be carefully removed with xylene or mineral spirits before the sealant cures. Any utensils used for tooling can also be cleaned with xylene or mineral spirits.

Warranty

Tremco warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or refund the purchase price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage.

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.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Type		Two component semi-self-leveling urethane sealant
Color		THC 901 is available as a base and curative that can be tinted to your choice of 70 standard colors, or we can match a special color for you. A color pak is not required for the pretint version.
Solids		92%
Specific Gravity		1.2
Application		Semi-self-leveling sealant, applied with typical caulking equipment
Viscosity		Semi-self leveling
Extrusion Rate	ASTM C1183	4 seconds
Hardness, durometer scale "A"	ASTM C661	30 to 35
Weight Loss	ASTM C1246	12%
Skin Time	ASTM C679	Overnight
Tack Free Time	73.4°F (23°C) 50% RH	24 hr
Stain and Color Change	ASTM C510	No visible color change, No stain
Accelerated Weathering	ASTM C793	Passes
Movement Capability	ASTM C719	±25%
Tensile Strength	ASTM D412	200 to 250 psi
% Elongation	ASTM D412	500 to 650%

0117/THC901DS-ST

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