

THC-900/901

High Performance Multi-Component Polyurethane Sealant for Horizontal Expansion Joints

Product Description

Tremco THC-900 and 901 are multi-component, chemically curing polyurethane joint sealants that include a tintable base, curative packet, and a choice of 70 standard colors.

Basic Uses

Tremco THC-900 is a self-leveling joint sealant for use in any traffic rated horizontal expansion or control joint. THC-901 is a semi self-leveling joint sealant that can handle sloped traffic areas up to 10%. Both sealants can be used in parking garages, plazas, terrace decks, floors and sidewalk joints.

Features and Benefits

These sealants can be catalyzed to cure faster for time sensitive projects and cold weather. They can be used for exterior or interior use (with adequate ventilation), and are rated to take up to 25% extension and 25% compression of its originally installed width.

Colors

THC-900 and THC-901 are available in 70 standard colors by using the Tremco Universal Color Paks. THC-900 and THC-901 are also available pre-tinted in limestone or we can custom color match to virtually any color upon request.

Packaging

1-1/2 and 3 gallon (5.7 & 11.4 L) kits. Each kit comes with pre-measured cans of curing agent. Universal Color Paks sold separately.

Note: THC 900 (1.5/3 gal) 3/6 cans of curative
THC 901 (1.5/3 gal) 2/4 cans of curative

Coverage Rates

308 linear feet of joint per gallon 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.

Applicable Standards

THC-900 and 901 meet or exceed 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

Joint Design

THC-900/901 may be used in any horizontal joint designed in accordance with accepted architectural/engineering practices. THC-901 can be used on sloped surfaces up to 10%. Joint width should be 4 times anticipated movement, but not less than 1/4" (6.4mm).

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 leak out 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.

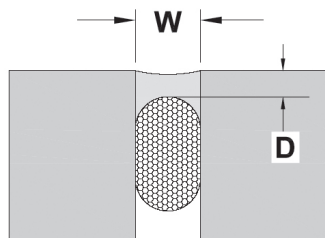
TYPICAL PHYSICAL PROPERTIES

Results of recent testing at 72°F (22°C) after 14 days cure time.

Property	THC-900	THC-901
Viscosity	Self-leveling	Semi-self leveling
Extrusion Rate	3 Seconds	4 Seconds
Hardness Properties (ASTM C 661)	30 - 35	30 - 35
Weight Loss (ASTM C 1246)	6%	10%
Skin Time	overnight	overnight
Tack Free Time (ASTM C 679)	24 hours	24 hours
Stain & Color (ASTM C 510)	No visible color change, No stain	No visible color change, No stain
Movement Capability (ASTM C 719)	±25%	±25%
Adhesion in Peel (ASTM C 794)		
Concrete	18-22 pli (80-89N)	18-22 pli (80-89N)
Accelerated Weathering (ASTM C 793)	Passes	Passes
Tensile Strength (ASTM D 412)	190 - 230 psi	200 - 250 psi
Ultimate Elongation (ASTM D 412)	550 - 650%	500 - 650%

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" (6mm by 6mm).

The depth (D) of sealant may be equal to the width (W) of joints that are less than 1/2" wide. For joints ranging from 1/2" to 1" (13mm 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 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.

Surface Preparations

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 Deckline Primer 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 in accordance with instructions on the pail using the entire pre-measured curative (part B) and the proper number of Universal Color Paks. To prevent whipping air into the pail, it is recommended to mix using a single-stage paddle mixer and a low speed drill for a minimum of 6 minutes, keeping the paddle well below the surface of the sealant and scrapping the sides of the pail until there are no color striations.

Ensure the backer rod is friction fitted properly and any primers have been applied. Apply sealant with conventional caulking equipment filling 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.

Cure Time

At 72°F (22°C) THC-900/901 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 hours 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.

Limitations

- Do not apply Tremco THC-900/901 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.

Warranty

Tremco warrants its sealants 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 sealants. Tremco's sole obligation shall be, at its option, to replace, or refund the purchase of the quantity of Tremco sealant 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.



UL Tested Systems FF-D-1064, FF-D-1065, FW-D-1060, FW-D-1061