



MM[®]PPT Expansion Joint

Polyurethane Premold T-Joint System

SPECIALTY DATA
MM Systems Corporation • 50 MM Way, Pendergrass, GA 30567 • 866.506.6929 • www.mmsystems.com

DESCRIPTION

PPT Series is a factory cured polyurethane molded seal with a metal support plate designed for small movement expansion joints. The PPT system has exceptional resistance to water intrusion after full cure (7 days) of the nosing sealant has been established.

BASIC USE

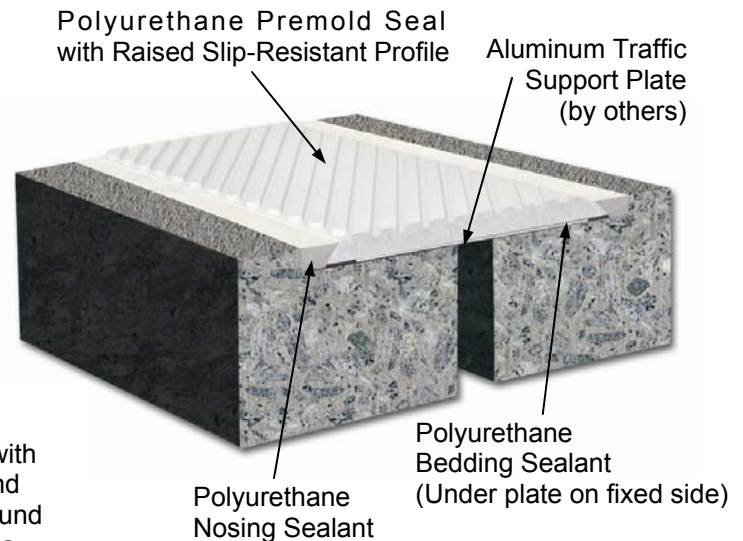
A low-profile expansion joint design for areas with limited movement. Excellent for use in tread and riser areas of stadiums, entranceways and around stair or elevator towers. Well suited for any area with heavy pedestrian traffic and limited movement.

FEATURES

- Molded Seal profiles are ADA compliant and provide a flush deck-to-deck transition.
- Uniform thickness and flush slip-resistant surface.
- PPT Nosing Sealant - two-part, chemical cure, cold applied, non-sag, traffic grade elastomeric sealant.
- Molded Seal has a Shore A Hardness of 30±5 with medium firmness and abrasion resistance.
- Flush surface design eliminates the collection of dirt or debris.
- Can be easily repaired and re-bonded.

LIMITATIONS

- Not recommended for use in potable water tanks, sewage facilities, swimming pools or below grade applications
- Not recommended as a structural component or in longitudinal expansion joints that are intended to be used as a constant traveling surface.
- Avoid areas where vehicular traffic must stop, start or turn on top of the premold seal.
- Not intended for use with snowplows, truck traffic, bus traffic, or high-speed vehicular traffic.
- Installation must occur when expansion joint opening is near its narrowest point (warm weather) otherwise the seal may hump upward.



PACKAGING

Shipped on pallets with the seals coiled to a minimum of 20 foot in length.

Polyurethane Nosing Sealant and Bedding Sealant supplied in 1.75-gallon buckets.

Primers supplied in 1-quart metal cans.

STORAGE

All materials should be stored in a cool, dry location 60-80°F (15-27°C) prior to use.

COLOR OPTIONS

PPT System is available in standard color gray.

PRECAUTIONS

Use splash goggles and chemical resistant gloves to avoid prolonged or repeated skin contact. Use with adequate ventilation. In case of eye contact, immediately flush (low pressure) with lukewarm water. In case of skin contact, immediately wash skin with soap and water.

Polyurethane Sealant activator contains diisocyanates that is known in the state of California to cause cancer.

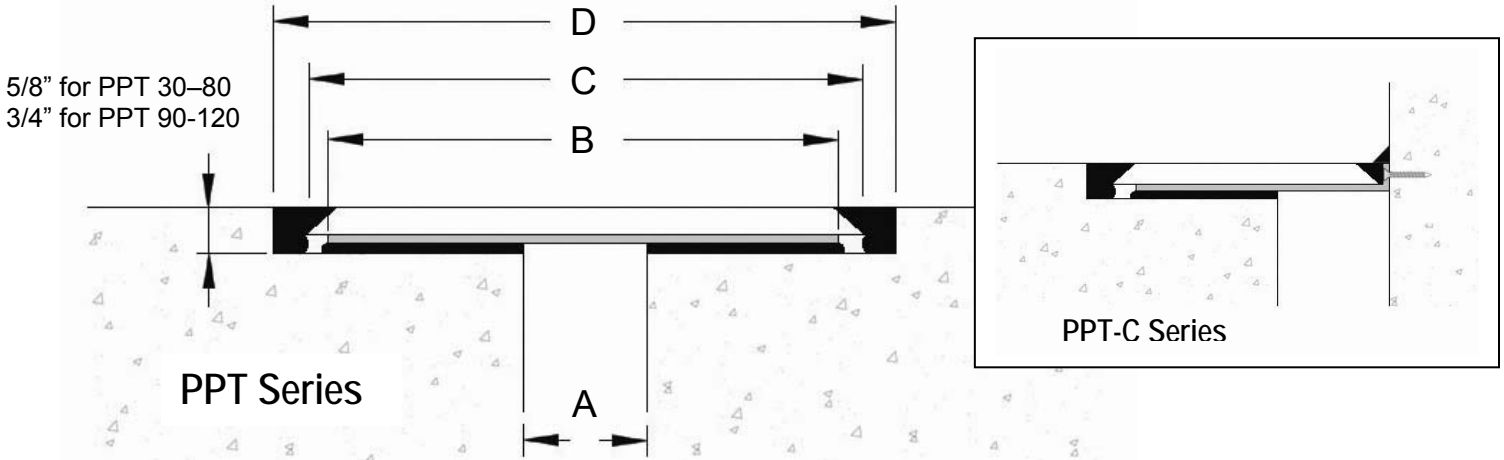
Primer contains aromatic solvents. This material is flammable – keep away from sparks and flame.

Read and follow labels and Material Safety Data Sheet before use.

MM PPT Expansion Joint System

Model Number	Total Movement		Joint Opening "A"				Installation Range "A"				Plate Size "B"	System Width "C"	Blockout Width "D"				
			Min.	Mid.	Max.	Min.	Max.										
PPT-30	0.50	13	0.50	13	0.75	19	1.00	25	0.50	13	0.75	19	2.25 x .06	3.0	76	4.0	102
PPT-40	0.75	19	0.625	16	1.00	25	1.375	35	0.625	16	1.00	25	3.5 x .06	4.0	102	5.0	127
PPT-60	1.00	25	1.00	25	1.50	38	2.00	51	1.00	25	1.50	38	5.0 x .09	6.0	152	7.0	178
PPT-80	1.50	38	1.50	38	2.25	57	3.00	76	1.50	38	2.25	57	6.5 x .09	8.0	203	9.0	229
PPT-100	2.00	51	2.00	51	3.00	76	4.00	102	2.00	51	3.00	76	8.0 x .125	10.0	254	11.0	279
PPT-120	2.50	64	1.75	44	3.00	76	4.25	108	1.75	44	3.00	76	8.0 x .125	12.0	305	13.0	330

Dimensions are in **inches** (bold) and millimeters. Contact MM Systems for additional sizes.



PHYSICAL PROPERTIES

@ 77°F, 25°C, 50% RH

Test Property	Value	Test Procedure
POLYMERIC NOSING		
Peel Adhesion, Concrete	50 pli	ASTM C794
Tensile Strength	1000 psi	ASTM D412
Ultimate Elongation (%)	200%	ASTM C603
Hardness, Shore A	30 ± 5 *	ASTM C661
Weight Loss, Heat Aging	< 5%	ASTM C792
FACTORY MOLDED SEAL		
Movement Capability	± 16 %	ASTM C719
Hardness, Shore A	30 ± 5 *	ASTM C661
Ultimate Elongation (%)	700 %	ASTM D412
Tensile Strength (psi)	250 psi	ASTM D412
Low Temperature Flexibility	Pass	ASTM D1790

Pot Life 30 minutes / Initial Cure 24 hours at 75 degrees

*Method of mixing/application and/or field conditions may slightly effect The ultimate hardness.

TECHNICAL DATA

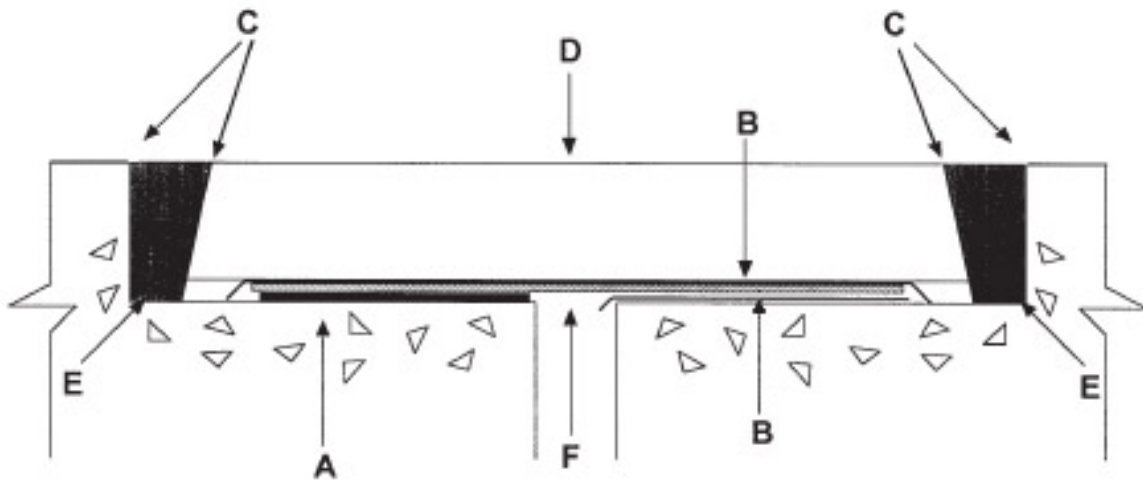
Applicable Standards: Meets Federal Specification TT-S-00227E, Type II, Class A; ASTM C-920-98, Type M, Class 25, Grade NS, Use T,M,A and O. Also exceeds the test requirements of ASTM C-1247 for Sealants Exposed to Continuous Immersion in Liquids.

LIMITED WARRANTY

MM Systems warrants the Polyurethane Premold System to be free of defects in material and conform to technical data listed. We make no warranty as to color or appearance. Since methods of application can affect performance and on site conditions are beyond our control, MM Systems makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MM Systems sole obligation shall be, at its option, to replace, or to refund the purchase price of the quantity of system proved to be defective. In no event shall MM Systems be liable for any special, incidental, consequential, loss of profits or punitive damages. Other warranties may be available when installed by a MM Systems Certified Contractor



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INSTALLATION INSTRUCTIONS

1. Remove and repair all unsound concrete in and around the blockout. All spalls must be repaired with compatible patching material. All work should be performed between 70° F and 90° F.
2. Prepare substrate by sandblasting. The blockout must be clean and dry prior to installation.
3. Uncoil PPT Premold Seal (D) and allow it to relax. The seal shall be cut to the correct length without pulling or exerting excess tension.
4. Apply primer to the concrete blockout surface area (A & E) and also apply to the sidewall of the concrete (C) and the sides of the PPT seal (C). Allow to dry 1 hour at 70° F. Allow longer drying times when humidity levels are below 50%.
5. Thoroughly mix the Polyurethane Sealant prior to placement in the concrete blockout.
6. Use Polyurethane Sealant (A) to bond aluminum plate to one side of concrete. Calculate bedding sealant thickness based on overall blockout depth minus plate thickness and premold seal thickness. Apply bedding sealant to base of the blockout equal to the width of the aluminum traffic support plate on the bonded side.
7. If opposing blockout is irregular or deeper then additional bedding sealant and bond breaker may be required on the free movement side.
8. Apply bond breaker (B) over entire top surface of the aluminum plate and across the bottom of the traffic support plate on the free movement side.
9. Install traffic support plate centered over the expansion joint opening and bedding sealant.
10. Unroll PPT Seal (D) and install directly over the top of the aluminum traffic support plate (F).
11. Provide a 3/8-inch gap between continuous run of PPT Premold Seals. Insure bond breaker has been applied.
12. Width of PPT Seal should be a minimum of 5 times anticipated movement.
13. Apply polyurethane nosing sealant to ½ inch (min.) edge voids (C) on each side of the blockout opening. Apply nosing sealant in the 3/8-inch gaps between continuous runs of premold seals. Tool field applied sealant to insure full contact and proper adhesion.
14. Install in accordance with detailed installation guide.

MM Systems reserves the right to amend or withdraw information contained herein, without notice, and will not be liable for any inaccuracy or ambiguity of said information.

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Spec Data

50 MM Way, Pendergrass, GA 30567 • 706.824.7500 • www.mmsystemscorp.com