

Product Description

Tremco® PUMA Expansion Joint System (EJS) is a monolithic, liquid, Polyurethane-Methacrylate (PUMA) expansion joint system with superior durability and excellent movement capabilities. PUMA Technology is designed to have tenacious adhesion and extreme abrasion resistance. It can be walked on in one hour, which will minimize operation disruption.

Tremco PUMA EJS is comprised of an aluminum butyl-backed tape, aluminum heat-resistant tape, primer, joint compound material, and top coat. Throats over 2" will require 20-gauge sheet metal in lieu of the aluminum butyl-backed tape. All PUMA components are cured using Tremco PUMA Initiator.

Tremco PUMA Primer is a methyl-methacrylate (MMA), two-component primer for porous and non-porous substrates.

Tremco PUMA EJ Basic is a two-part, chemical curing, PUMA modified membrane used as an elastomeric joint compound material.

Tremco PUMA TC is a methyl methacrylate (MMA) top coat. Interlaminar adhesion to Tremco PUMA TC is exceedingly strong. The top coat affords excellent abrasion resistance, UV stability and chemical resistance to complete the Tremco PUMA EJS.

The Tremco PUMA EJS is poured into Tremco's patent-pending Beveled Anchor Profile to sit completely flush with the surrounding deck, making it seamless and completely snag-free.

Basic Uses

Tremco PUMA EJS can be used in exposed and/or multi-story parking garages in both new construction and restoration.

Features and Benefits

- Seamless and snag-free
- Multiple system configurations to accommodate most +/- movement requirements
- Waterproof and air-tight
- Offers significant sound, shock and vibration reduction compared to traditional mechanical expansion joint systems
- Polyurethane-methacrylate (PUMA) technology delivers extreme durability while maintaining its crack-bridging characteristics
- Rapid set-up times allow for quick overall installation, as well as the ability to open to vehicular traffic one hour later
- Can be applied at temperatures below 20 °F (-7 °C), which allows for continuation of projects in the colder months

- Initiator adjustments allow for 30 to 45 min cure time between applications, even at temperatures below freezing
- Extreme durability stands up to heavy vehicular traffic, including snow plows
- Excellent abrasion and chemical resistance
- Industry-leading leak-free warranty (terms dependent on system configuration)
- Compatible with Tremco sealants and coatings, which is essential for tie-ins, detailing and penetrations
- Zero Volatile Organic Compounds (VOCs)

- Extremely forgiving application allows users to apply additional coats long after the previous coat has cured
- Unique chemistry allows for easy repair

Availability

Immediately available from your local Tremco Sales Representative.

Packaging

Tremco PUMA Primer: 6-gal pails

Tremco PUMA EJ Basic: 6-gal pails

Tremco PUMA TC: 6-gal pails

Tremco PUMA Initiator: 22 or 55-lb bags

Tremco PUMA Cleaner: 6-gal pails

Reinforcing Bars: 3.3' x 6" (1 m x 15.2 cm) sections

Colors

Tremco PUMA TC is available in Gray, Slate Gray, Tintable and Decorative.

Limitations

- Do not apply to damp or contaminated surfaces.
- Use with adequate ventilation.
- Joints shall not be greater than 2 in (5 cm) nominal width at 72°F (22° C).
- For joint sizes that are greater than 2 in (5 cm) nominal width at 72°F (22° C) please contact your local Tremco Representative
- Joint movement should not exceed +/- 0.5 in (1.27 cm). Joint movement is to be determined by the engineer of record or a third-party consultant.

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 to 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

Tremco® PUMA Expansion Joint System (EJS)
 A Monolithic Liquid Polyurethane-Methacrylate (PUMA) Expansion Joint System

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TREMCO PUMA EJ Basic	TREMCO PUMA TC
VOC Content	Method 310	0 g/L	0 g/L
% Solids (by Weight)	ASTM D1353	100%	100%
Drying Time @ 75° F (24° C), 50% RH	ASTM D1640	750 mil, 1 hr	17 mil film, 1 hr
Weathering	ASTM D822 Weatherometer 350 hr	N/A	No effect
Elongation	ASTM D638	407%-420%	130%
Elongation	ASTM D412	218%	N/A
Elongation	ASTM D5147	Min 30%	Min 30%
Tensile Strength	ASTM D638 @ 75°F	991 – 1680 psi	986 psi
Tensile Strength	ASTM D412	752 psi	N/A
Tear Strength	ASTM D624, Die C	175 psi	N/A
Tearing Resistance	ASTM D4073	91 lbf	203 lbf
Hardness (Shore D)	ASTM D2240	18 - 35	55
Hardness (Shore A)	ASTM D2240	65 - 87	100
Hardness (Shore A)	ASTM C661	89	N/A
Abrasion Resistance (1000 cycles)	ATSM D4060	N/A	51 mgm
Low-Temperature Crack Bridging	ASTM C1305	Passes	N/A
Low-Temperature Flexibility	ASTM D1970	Passes	N/A
Taber Abrasion	ASTM C501	Passes	N/A
Peak Load @ 73° F (23° C), avg.	ASTM D5147	>70 lbf/in	238 lb/in
Puncture Resistance	ASTM D5602	> 56 lbs	>56 lbs
Water Absorption	ASTM D570	N/A	< 0.1%
Water Vapor Transmission	ASTM E96	0.03 perms	0.03 perms
Adhesion-in-Peel	ASTM C794	Concrete failure with primer	N/A
Self-Ignition Temperature	ASTM D1929	800° F (427° C)	850° F (454° C)
Smoke Density	ASTM D2843	4.1%	2.1%
Rate of Burn	ASTM D635	1.2 in/min	0.2 in/min

11/19/TPEJSDS-EJ

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Tremco Commercial Sealants & Waterproofing

3735 Green Rd
 Beachwood OH 44122
 216.292.5000 / 800.321.7906

1451 Jacobson Ave
 Ashland OH 44805
 419.289.2050 / 800.321.6357

220 Wicksteed Ave
 Toronto ON M4H1G7
 416.421.3300 / 800.363.3213

1445 Rue de Coulomb
 Boucherville QC J4B 7L8
 514.521.9555