POLY-TRON ELASTOMERIC CONCRETE DATA SHEET

PRODUCT DESCRIPTION

Poly-Tron is a fast setting, low viscosity, waterproof, moisture insensitive, three-component, modified polyurethane elastomeric concrete material.

USES

Poly-Tron Elastomeric Concrete is used primarily as an expansion joint edge material, a flexible nosing material for metallic expansion joint assemblies, and a patching compound for spalls in concrete deck surfaces.

KEY FEATURES

- Excellent adhesion to various substrates.
- Excellent thermal shock resistance.
- Excellent moisture resistance.
- Flexible and resilient.
- Resistant to freeze-thaw changes.
- Very good solvent and chemical resistance.

FEATURES

- Easy to mix and install, and fast setting.
- Flexible but tough.
- Excellent impact resistance.
- Very good solvent and chemical resistance.
- Excellent adhesion to various substrates.
- Economical with high quality.
- Resistant to U.V and ozone exposure.
- Resistant to freeze-thaw changes.

LIMITATIONS

- Minimum ambient temperature during installation is 45ºF (7ºC) and rising.

PACKAGING

Available in 900 cubic inch (14,749 cm^3) kits.

STANDARD COLOR

Black

INSTALLATION

Create and Prepare Blockout

Prepare block out area per plans and specifications. Substrate must be clean, dry to the touch (<10% moisture), sound, and free of incompatible substrates such as unapproved patching materials, delaminated concrete, salt, oil, or chemical saturation, degraded steel, asphalt, bitumen, etc. If the substrate is suspicious the on-site tech rep &/or manufacturer shall be notified for recommendations prior to placement. The bottom interface of the Poly-Tron must be placed on a structural member. Any deviations (from any of these instructions) require manufacture's approval and recommendations. New concrete should be a minimum of 80% cured (7-10 days for 28 day concrete) prior to application. Sandblast all surfaces against which the Poly-Tron is to be placed. Metalized steel may require only a "brush blast" to insure a clean surface. All non-metalized steel shall be blasted to SSPC-10 (near-white finish). Remove all sand and debris with oil-free compressed air. Be sure the temporary form for the joint opening is set per plans and specifications and insure a tight fit to prevent elastomeric concrete from leaking into the joint opening. Do not use any form release agents.

Primer Application

Prepare the Poly-Tron primer according to directions. Apply with protective gloved hand or brush. The coated area need only be thick enough to not see through. Avoid puddling of primer. Prime all surfaces that are to be in contact with the Poly-Tron elastomeric concrete.

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Elastomeric Concrete Installation

Place mixed Poly-Tron immediately after priming, no waiting time is needed. Mix Poly-Tron according to proper ratio (2:1, A:B). Mix parts A & B first (approx. 1-2 min.) then add the supplied aggregate and mix thoroughly. All aggregate should be saturated with the resin mixture. Place the mixed elastomeric concrete into the prepared area per plans and specifications. Make sure that it is thoroughly compacted under any steel angles, around the anchors and within the block out. Trowel flush. Working time of mixed material is approximately 10-25 minutes per kit from beginning of mixing. After cure, remove temporary forms and grind a ¼" bevel to the two opposing top joint nosing edges.

PRECAUTIONS

Store material between 65°F - 90°F (19°C - 33°C). Keep unmixed, uncured product from freezing.

Refer to Material Safety Data Sheet for detailed health and safety information prior to use.

WARRANTY

R.J. Watson, Inc. warrants that its products are manufactured free of defects and conform to the technical data listed. Under this warranty we will replace, at no charge, any material proven defective when applied in accordance with our written instructions for applications recommended by us as suitable for this product. R.J. Watson, Inc. shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of this product.

TECHNICAL DATA FROM LABORATORY TESTS

Property	Test Method	Test Results
(Binder Only) Tensile Strength	ASTM D 638	1300psi (8.96 MPa)
Elongation @ Break	ASTM D 638	175% min
Hardness (Shore D)	ASTM D 2240	45 ± 5
Tear Resistance	ASTM D 624	110 ± 20 lb/in
(With Aggregate) Compressive Strength	ASTM C-579	3500psi (24.1 MPa)
Bond Strength to Concrete	ASTM D 638	450psi
Brittleness +/- 1 ft-lb	Ball Drop	7 ft-lb min.
Pot Life		10-25 min.

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