



# Poly-Tron Elastomeric Concrete

## Data Sheet

### Product Description

Poly-Tron is a fast-setting, low-velocity, two-component, 100% solid, modified polyurethane elastomeric concrete. It is designed as an expansion joint header to preserve and protect concrete decks and substructures by preventing water absorption and minimizing chloride intrusion. Poly-Tron is a fast-setting elastomeric concrete, allowing traffic to return in as little as two hours.

### Uses

Poly-Tron Elastomeric concrete has the following primary uses:

- An expansion joint edge material.
  - Bridges with and without overlays.
  - Replacing the block-out area when removing failed molded rubber joints or metallic armored joints.
- A flexible nosing material for metallic expansion joint assemblies.
- A patching compound for spalls in concrete deck surfaces.

Poly-Tron reduces the need for expensive and cumbersome steel angles, even on high-volume, high-speed interstate highway bridges and is ideal for new construction and rehabilitation projects. Since many joint seals are incompatible with asphalt, Poly-Tron is an ideal application for overlaid bridges.

### Features

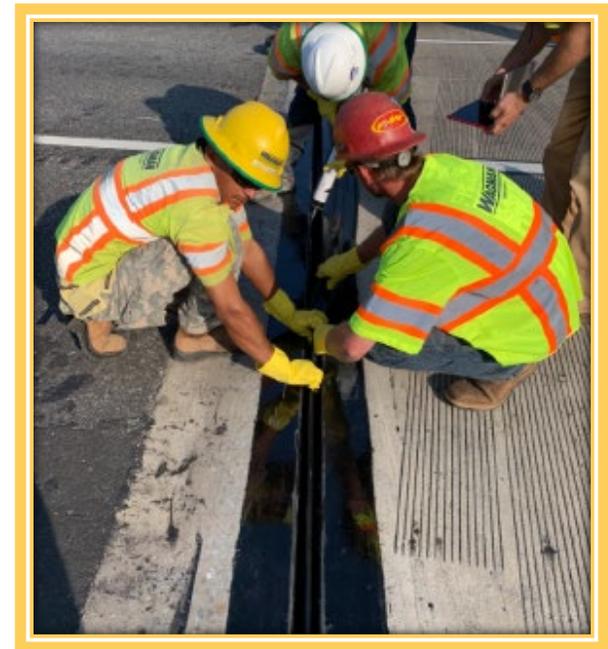
- Superior adhesion to various substrates.
- Excellent resistance to U.V., freeze-thaw, thermal shock, impact, solvents, chemicals, and moisture.
- High abrasion resistance.
- Ideal for quick repairs to expansion joints.
- Flexible and resilient.
- Easy to mix, install, and fast setting.
- High quality and economical.

### Packaging

Standard stock kits yield 0.52 ft<sup>3</sup> per kit. Larger size packaging is available upon request.

### Installation

Please refer to "Poly-Tron Preparation and Installation Procedure".





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### Drying Time

Poly-Tron has a working time of approximately 15 minutes depending on temperature. Cure time is temperature and mass dependent, the warmer the product, the faster the cure time. The following traffic ready times may be used as a guide for the unheated system at the listed ambient air temperatures.

- 95°F - 80°F: 1 - 2 ½ hours
- 80°F - 65°F: 2 - 3 ½ hours
- 65°F - 45°F: 3 - 5 ½ hours

If a faster cure time is required, or if the temperature is colder than 45°F, an accelerator is available which will raise the temperature to decrease cure time. Contact RJ Watson for site specific recommendations.

#### Typical Physical Properties

Appearance @ 77°F (25°C)	Part A	Part B	Mixed
Packaging	1 can	1 can	1 bag aggregate
Color	Black	Lt. Brown	Black
Viscosity, cps	550 ± 25	250 ± 50	
Wt./gal., lb.	8.1 ± 0.1	10.2 ± 0.1	
Properties with Aggregate	Value	Test Procedure	
Compressive Strength (PSI)	3000 Min.	ASTM C579	
Brittleness ± 1 ft-lb	7 Min.	Ball Drop	
Properties without Aggregate	Value	Test Procedure	
Tensile Strength (PSI)	1650 ± 200	ASTM D638	
Tear Strength (PLI)	150 ± 25	ASTM D624	
Shore D Hardness	45 ± 5	ASTM D2240	
Bond Strength Wet Concrete (PSI)	450	Tex 618-J	

### Storage

All materials should be stored indoors on a hard and dry surface between 65°F and 90°F and be kept away from moisture prior to installation.

### Precautions

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

### Shelf Life

One year shelf life from the date of manufacture in unopened containers

