

Technical Data Sheet  
TDS-896-01995

# PMS<sup>TM</sup>400

Two-Component Polyurethane Mastic Sealant



Building  
&  
Transportation



Oil, Gas  
&  
Industrial



Offshore  
&  
Onshore



Water  
&  
Wastewater



## PRODUCT DESCRIPTION

CTech-LLC<sup>®</sup> PMS<sup>TM</sup>400 is a polyurethane-based, Two-component mastic sealant. It maintains permanent flexibility with a high bond strength that provides outstanding durability. When mixed, PMS<sup>TM</sup>400 two component polyurethane mastic sealant provides a flexible, long lasting, durable waterproofing seal for both new construction and restoration projects.

## TECHNICAL DATA

	Unit	PMS <sup>TM</sup> 400
Chemical Base	-	Polyurethane Resin
Color*	-	Gray (mixed)
Mixing Ratio		1:2
Density of Mix ASTM D 1475	gr/cm <sup>3</sup>	1.4
Tensile Strength* ASTM D 412	MPa	0.6
Elongation at break ASTM D 412	%	300
Shore A Hardness ASTM C 661		25±5
Movement Capability	%	±50
Application Methods	-	pneumatic or manual gun
Consumption	L	93 meters per 3.7 L (6x6 mm section)
Storage Conditions	°C	Store dry at 4 – 40
Application Temperature Range	°C	From +5 to +35
Acceptable Substrate Moisture level	%	Less than 4
Cure Time ASTM C-679	days	3

\* For special orders of other colors, contact Customer Service.

## ADVANTAGES

- Easy to gun and tool, speeding up application and making neater joints
- Good Adhesion to a wide range of substrates
- Capable of ±50% joint movement.
- Cures to a tough, durable & elastic finish
- Two-components & convenient packing

- Easy to mix
- Good resistance to mechanical stress, chemicals, fuels, oils ....

## TYPICAL USES

CTech-LLC<sup>®</sup> PMS<sup>TM</sup>400 two component mastic polyurethane sealant has been developed for sealing expansion and contraction joints in horizontal and vertical surfaces in buildings and civil engineering and hydraulic works (irrigation canals, water supply systems, tanks, airport runways, etc.).

## INSTALLATION PROCEDURE

### PREPARATION OF SUBSTRATE

- Surface must be clean, sound, and dry. Do not apply over damp, contaminated, loose surfaces, old sealants, or other foreign substances that may impair adhesion.

### Mix

- Pour entire contents of Components 'A' and 'B' into a pail.
- Mix with a low-speed drill (400–600 rpm) paddle.
- Mix for 3–5 minutes to achieve a uniform color and consistency.

### APPLICATION

- Apply the mixes sealant by using a pneumatic or manual gun, avoiding air entrapment.
- Place nozzle of gun into bottom of the joint and fill entire joint.
- A 3.7 L seals 93 lineal meters in 6 by 6 mm joint
- Do not apply at a temperature under 5

°C.

- To avoid the sealant spreading out of the joint and to leave an attractive finish we recommend using masking tape around the joints

#### **STORAGE & SHELF LIFE**

Protect unopened containers from heat and direct sunshine. In cool or cold weather, store containers at room temperature for at least 24 hours before using. 1 year when stored in unopened containers at 24 °C and 50% relative humidity.

#### **CAUTION**

Sealants may cause skin irritation and sensitization. Use of chemical resistant gloves is recommended. Using safety goggles is necessary.

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#### **CTech-LLC<sup>®</sup>**

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#### **IMPORTANT NOTE:**

Before using any CTech-LLC<sup>®</sup> product, the user must review the most recent version of the product's technical data sheet, material safety data sheet and other applicable documents, available at [www.ctech-llc.com](http://www.ctech-llc.com).

#### **WARANTY:**

CTech-LLC<sup>®</sup> warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within one month of the date of purchase. CTech-LLC<sup>®</sup> shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory. The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before utilizing.