# TX9

## SEVERE ABRASION FAST-CURING CERAMIC EPOXY COMPOUND


## DATA SHEET

100% solids, Taurus TX9 is a fast-curing, solvent-free ceramic compound specifically designed as a protective coating for metals in highly aggressive environments, especially where high-wear abrasion is present. It delivers excellent performance in a wide range of caustics and acids. Taurus TX9 can be easily applied with a trowel, spatula, or even by hand on both horizontal and vertical substrates.

- Application in thicknesses of up to 25.4 mm (1 inch) without sagging
- Compatible with steel, bronze, aluminum, concrete
- Protection against corrosion and abrasion

## APPLICATION AREAS

- Chutes and hoppers
- Containers
- Fans
- Impellers
- Pipe elbows
- Pump bodies
- Screw conveyors
- Wear plates
- Propellers
- Many others

## COVERAGE

25 lb kit covers 0.95 m² (10.2 sq ft)
Thickness: 6 mm (240 mils)

## COLOR

Gray as standard. Blue and red optional.

## PACKAGING

| Size | Reorder # |
|---|---|
| 5 lb | TX9-05 |
| 25 lb | TX9-25 |

| Size | Reorder # |
|---|---|
| 20 kg | TX9-20 |

## TECHNICAL DATA

| Maximum Temperature (depending on the service) | Wet Service<br>Dry Service | 80°C<br>120°C | 176°F<br>248°F |
|---|---|---|---|
| Flexural Strengh | (ASTM D 790) | 528 kg/cm² (51.7 MPa) | 7,500 psi |
| Pull-off Adhesion | (ASTM D 4541) | 225 kg/cm² (22.1 MPa) | 3,200 psi |
| Tensile Strength | (ASTM D 638) | 218 kg/cm² (21.4 MPa) | 3,100 psi |
| Shore D Hardness | (ASTM D 2240) | 88 | |
| Taber Abrasion: CS-10, 1000 g, 1000 cycles | (ASTM D 4060) | 16mg | |
| Pot Life | 25 min / kg at 72°F | | |
| SAG Vertical Resistance at 21°C (70°F) and 25.4mm (1000mils) | No sagging | | |
| Mixing Ratio | 2:1 by Weight | Base: Activator | |
| Shelf Life (unopened containers ) | 3 years at 55-95°F (13-35°C) | | |

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TAURUS EPOXY®
COATINGS

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## SURFACE PREPARATION

Proper surface preparation is critical to the long-term performance of this product. The exact requirements for surface preparation vary with the severity of the application, the expected service life and the initial conditions of the substrate. All sharp edges and welds shall be roughed to a radius of 3mm (120 mil) with abrasive disc. Optimal preparation will provide a thoroughly cleaned surface of all contaminants and rough to an angular profile between 75-125m (3-5 mil). This is normally achieved by initial cleaning and degreasing and then abrasive blasting to a White Metal (SSPC-SP10) or close to white metal cleaning, followed by the removal of abrasive residues from the jet on the surface to be coated.

## MIX

Mix the activator well in the base with the mixing rod scraping the sides and the bottom of the container.
Mix by weight 2 parts Base to 1 part of Activator.
Mix thoroughly to produce a uniform and without stripes. Never put solvents.

## APPLICATION TEMPERATURE

Keep between 55 and 95°F (17 to 35°C). Substrate: Keep between 45 and 105°F (7 to 40°C). The temperature difference of the substrate and material should never exceed 10°F (5°C). The substrate shall be at least 5°F (3°C) above the dew point. Do not apply if the relative humidity exceeds 90%. If necessary, heat the metal before surface preparation using electric heater or heat lamp. Never use gas, oil or kerosene heaters, as they will leave a greasy residue on the metal surface. For best results, keep all material in the warm zone overnight (75°F+) for easy mixing.

## CURED TIME

| | 16°C (60°F) | 25°C (77°F) | 32°C (90°F) |
|---|---|---|---|
| Tack Free | 45 min. | 20 min. | 20 min. |
| Light Load | 1 hour | 45 min. | 30 min. |
| Recoat Time | 1 hour | 45 min. | 30 min. |
| Full Load | 1.5 hours | 1 hour | 45 min. |
| Complete Chemical | 4 hours | 3 hours | 2 hours |

## APPLICATION

Apply a minimum layer of 6 mm using a heavy-duty plastic spatula or a putty knife. Make sure to press the material firmly against the substrate profile to ensure maximum adhesion and eliminate any possible air bubbles. Shape the product as desired using a plastic applicator or putty knife. If using molds or forms, it is essential to coat their surface with a release agent to prevent the material from sticking to them.

## CLEAN

Tools should be thoroughly cleaned immediately after use with a strong alkaline detergent.

## SAFETY

Before using any product, review the Safety Data Sheet (SDS) or Safety Data Sheet for your area. Follow standard confined space entry and work procedures, if applicable.



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