



# Technical Data Sheet

## 811 Ceramkote Ceramic Coating

### PN 81110 (1kg) – 81150 (5kg)

#### Brushable Ceramic

#### PRODUCT DESCRIPTION

A brushable, high performance ceramic, silicon carbide and glassflake -filled epoxy for sealing, protecting, and repairing surfaces subject to erosion, corrosion, and wear.

#### RECOMMENDED USE

Areas requiring abrasion (and chemical) resistance. This material has been used in cyclones, chemical process vessels, sugar beet pulping drums etc. It is useful for building up damaged areas of pump impellers and casings where impact or abrasion, are prevalent.

#### CHARACTERISTICS

- Excellent chemical resistance
- Low viscosity, self-levelling liquid
- Protective abrasion resistant coating
- Reduces downtime
- Easy to mix and use

#### PHYSICAL DATA

Cured @320 C for 24 hr

Colour	: Grey
Gloss level	: Gloss
Volume Solid	: 100%
Dry Film Thickness	: 1.000 microns
Number of Coat	: 1-2
Mixing Ratio (resin:activator)	: 4 : 1 by volume
Theoretical Coverage	: 1 m <sup>2</sup> /litre at 1 mm thickness
Density	: 1.5 gcm <sup>3</sup> mixed
Temperature Resistance	: 65°C (wet) & 170°C (dry)
Hardness ShoreD, ASTM D2240	: 85
Flexural strength, ASTM D790	: 9.000 psi
Flexural Modulus, ASTM D790	: 769.000 psi
Compressive strength, ASTM D695	: 10.000 psi
Compressive modulus, ASTM D695	: 559.000 psi
Flash Point	: Greater 110° C
Shelf Life	: 2 years in unopened tins, stored at 50°C-400°C
Pack Size	: 1 or 5 kgs composites





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#### **SURFACE PREPARATION:**

Proper surface preparation is critical to the long-term performance of this product. The exact requirements vary with the severity of the application, expected service life, and initial substrate conditions.

1. Clean, dry and abrade application surface. The more thorough the degree of surface preparation the better the performance of the application. If possible, it is recommended that the surface be grit blasted to a Near White Metal (SSPC-SP10/NACE No. 2) Standard. For less severe applications roughening the surface with hand tools is suitable.
2. Solvent cleaning with a residue-free solvent is recommended as the final step to aid in adhesion.

#### **APPLICATION**

Add hardener to resin. Mix thoroughly with screwdriver or similar tool (continuously scrape material away from sides and bottom of container) until a uniform, streak-free consistency is obtained.

#### **Surface Temperature**

Should be 100C–400C, at least 50C above the dew point to prevent condensation and humidity below an RH value of 90%.

#### **Drying Time**

Recoat Time 4 hours at 250C, 2 hours at 320C

Curing Time 24 hours at 320C

#### **Pot Life**

50 minutes at 250C, 20 minutes at 320C

#### **CHEMICAL RESISTANCE**

*Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F*

Benzene	Excellent
Gasoline (Unleaded)	Excellent
Hydrochloric 10%	Very good
Kerosene	Excellent
Mineral Spirits	Excellent
Nitric 50%	Poor
Phosphoric 10%	Very good
Potassium Hydroxide 40%	Excellent

Sodium Hydroxide 10%	Excellent
Sodium Hydroxide 50%	Excellent
Sodium Hypochlorite	Very good
Sulfuric 10%	Very good
Sulfuric 50%	Fair
Toluene	Excellent
Xylene	Fair





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#### SAFETY PRECAUTION

*Keep away from heat, spark and Open flames. Avoid breathing of vapour on skin and eye contact. Keep container closed and store in cool, ventilated area when not in use.  
Proper ventilation and protective measures must be provided during mixing, application and drying, to keep vapour concentration within safe limits and to protect against toxic hazard.  
Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interior and building.*

#### DISCLAIMER

*The information in this product data sheet is given to the best of our knowledge based on laboratory testing and practical experience. If the product is used under condition beyond our control, we cannot guarantee anything but the quality of the products it self. The information in this product data sheet is liable for modification from time to time in the light of experience and our policy of continuous product development, and without further notice.*

