

**MAXCERAM 300 CERAMIC FILLED EFFICIENCY COATING**
**Description**

**MAXCERAM 300 – CERAMIC FILLED EFFICIENCY COATING** is wear resistant coating formulated using the latest solvent free epoxy technology, enhanced further with the addition of high-quality silicone carbide ceramic fillers.

Designed principally for the long-term protection of worn pumps and fluid flow components or on plant and equipment suffering material loss due to erosion, corrosion, cavitation and wear.

Once cured **MAXCERAM 300 – CERAMIC FILLED EFFICIENCY COATING** provides a hard-wearing sacrificial barrier, protecting the parent metal from corrosion, erosion and wear,

The material has an ultra-high gloss surface finish, designed to reduce internal friction, improve pumping efficiencies and help to lower energy consumption.

The material is supplied as a 2-component product (PART A & PART B), that requires mixing before use, once mixed the product can be applied directly to prepared metal surfaces by brush, squeegee or plastic applicator.

## Material Properties

Appearance	Base Activator Mixed	Blue or light grey paste Amber liquid Thixotropic blue or light grey liquid
Mixing Ratio	By Weight By Volume	5:1 3:1
Density	Base Activator Mixed	1.67 1.05 1.52
Volume Capacity		657cc/kg
Solids Content		100%
Sag Resistance	Nil at	400 microns

Usable Life	10°C 20°C 30°C	50-60 minutes 30-40 minutes 20-25 minutes
Coverage	1kg unit of mixed product at a nominal thickness of 250 microns per coat.	2.2 sqm/kg
Cure Times @ 20°C	movement without load or immersion: Machining and light loading: Full loading and cold-water immersion: Hot water and chemical immersion:	6 hours 10 hours 3 days 6 days
Storage Life	Unopened and stored in dry conditions (15-30°C)	5 years
Abrasion Resistance	Taber CS17 Wheels/1 Kg load	122mg loss/1000 cycles 0.08cc loss/1000 cycles
Adhesion	Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75-micron profile	187kg/cm <sup>2</sup> (2650psi)
Compressive Strength	Tested to ASTM D 695	735kg/cm <sup>2</sup> (10,450psi)
Corrosion Resistance	Tested to ASTM B117	5000 hours
Flexural Strength	Tested to ASTM D790	570kg/cm <sup>2</sup> (8100psi)
Hardness	Rockwell R to ASTM ASTM D785	85
Heat Distortion	Tested to ASTM D648 at 264psi fibre stress.	20°C Cure 46°C 100°C Cure 82°C
Heat Resistance	Suitable for use in immersed conditions at temperatures up to: Resistant to dry heat up to:	70°C 200°C Dependant on load
Chemical Resistance	The product resists attack by a wide variety of inorganic acids, alkalies, salts and organic media.	

**Health and Safety**

Please ensure good practice is always observed during the mixing and application of this product.

Protective gloves must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read the fully detailed Material Safety Data Sheet.

**Legal Notice**

The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control.

It is the responsibility of the customer to determine the products suitability for use. Maxkote accepts no liability arising out of the use of this information or the product described herein.