

MAXCERAM 600 – HIGH TEMPERATURE ACID RESISTANT CERAMIC COATING
Description
MAXCERAM 600 – HIGH TEMPERATURE ACID RESISTANT CERAMIC

COATING is an erosion and corrosion will exceptional chemical resistance. The coating is formulated using the latest solvent free epoxy novolac technology, enhanced further with the addition of several grades of high-quality silicone carbide ceramic fillers.

Designed principally for the long-term protection of fluid-flow and process equipment commonly found in the oil, gas and chemical industries

Once cured **MAXCERAM 600 – HIGH TEMPERATURE ACID RESISTANT CERAMIC COATING** provides a hard-wearing sacrificial barrier, protecting the parent metal from erosion, corrosion and chemical attack at elevated temperatures up to 110°C continuous immersion in aqueous mineral acid solutions dependant on the application

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, squeegee or plastic applicator.

Material Properties

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|-----------------|----------------------------|---|
| Appearance | Base Activator Mixed | Dark grey paste Amber liquid Thixotropic liquid |
| Mixing Ratio | By Weight By Volume | 18:1 7:1 |
| Density | Base Activator Mixed | 2.55 0.97 2.35 |
| Volume Capacity | | 425cc/kg |
| Solids Content | | 100% |
| Sag Resistance | Nil at | 1000 microns |
| Usable Life | 10°C 20°C | 50-60 minutes 30-40 minutes |

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|----------------------|--|---|
| | 30°C | 15-20 minutes |
| Coverage | Base-coat first applied at a target film thickness of 600 microns: Second, applied at a target film thickness of 300 microns Single coat applications at 650-850 micron: | 0.6 sq metres/kg 1.2 sq metres/ kg 0.45 sq metres |
| Storage Life | Unopened and stored in dry conditions (15-30°C) | 5 years |
| Abrasion Resistance | Taber H10 Wheels/1 Kg load, wet | 85mg loss/1000 cycles 0.036cc loss/1000 cycles |
| Adhesion | Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile | 220kg/cm ² 3125psi |
| Compressive Strength | Tested to ASTM D 695 | 983kg/ cm ² 13,960psi |
| Corrosion Resistance | Tested to ASTM B117 | 5000 hours |
| Flexural Strength | Tested to ASTM D790 | 614kg/cm ² 8710ps |
| Hardness | Shore D to ASTM D2240 | 20°C 89 100°C 87 150°C 86 200°C 82 240°C 78 |
| Heat Distortion | Tested to ASTM D648 at 264psi fibre stress | 20°C Cure 47°C 100°C Cure 126°C 150°C Cure 172°C |
| Heat Resistance | Suitable for use in immersed conditions at temperatures up to 110°C and in dry service up to 240°C. | 110°C 240°C |
| Chemical Resistance | The product resists attack by a wide variety of aqueous non-acidic solutions and hydrocarbon oils at elevated temperature and other media at lower temperatures. | |

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.