MAXKOTE
Repair, Maintenance & Protection Products

APPLICATION GUIDE

CER200 APG-REV1- 2018

MAXCERAM 300 CERAMIC FILLED EFFICIENCEY COATING

Description	**MAXCERAM 200 – 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 lose due to erosion, corrosion, cavitation and wear. Once cured **MAXCERAM 200 – 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.
Applications	• Pump impellers, casings, cutwaters, end plates, flow-straighteners and wear rings • Ship rudders, bow thrusters, Kort nozzles, A-frames and jet tubes • Heat exchanger tube sheets, water boxes, end plates and pipework • Fan casings and blades • Internal pipe protection • Valves
Surface Preparation Steel	All oil and grease must be removed from the surface of the repair using an appropriate cleaner such as MEK or similar solvent. For optimum performance, the surface should be grit-blasted to **ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2)** and a minimum blast profile of 75 microns using an angular abrasive. Once blast cleaned, the surface must be degreased and cleaned using MEK or similar solvent. All surfaces must be repaired before gingering or oxidation occurs

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Surface Preparation Salts	For salt contaminated surfaces the area must be grit-blast cleaned as mentioned above and left for 24 hours to allow any ingrained salts to come to the surface. After this 24-hour period the surface must be washed with MEK prior to brush blasting to remove the surface salts. This process must be repeated until all ingrained contaminants have been sweated out of the surface.

Mixing	Warm the Base component to 15-25°C before mixing and do not apply when the ambient or substrate temperature is below 5°C or less than 3°C above dew point. Mix both Part-A and part-B together in full units as supplied. For small quantities us a mixing ratio of: **3:1 by volume or 5:1 by weight** When mixing both materials, it is very important to have a uniform light grey or blue fluid that is streak free. Once mixing is complete, use the mixed paste as soon possible after mixing.

Application	Apply the mixed material directly to the prepared surface as soon as possible after mixing. For best results the material has been designed to be applied as a two-coat system. **Basecoat** should be applied directly to prepared and cleaned metal surface at a minimum wet film thickness of 250 microns. (light grey fluid) **Topcoat** should be applied directly over the basecoat at a minimum wet film thickness of 250 microns. (blue fluid) The topcoat should be applied over the basecoat as soon as possible after application but not exceeding 6 hours, using a short-bristled brush, spatula, squeegee or plastic applicator.

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Pot Life	**30 - 40 minutes at 20°C**

Coverage	1kg unit of mixed product will cover 2.628 sq metres at a nominal wet film thickness of 250 microns. The coverage rate stated is theoretical, practical coverage may vary due to substrate temperature, poor surface profile or pitting.

Over-Coat Times	**Minimum** – the applied material can be over-coated as soon as it is touch dry. **Maximum** – over-coating time **6 hours** Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded, or flash-blasted and solvent washed to remove any surface contamination

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.

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