MAXKOTE
Repair, Maintenance & Protection Products

TECHNICAL DATA

CER400 TDS-REV1- 2018

MAXCERAM 400 – HEAVY DUTY CERAMIC WEAR COMPOUND

Description	**MAXCERAM 400 – HEAVY DUTY CERAMIC WEAR COMPOUND** is a wear resistant repair and rebuilding paste formulated using the latest solvent free epoxy 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 equipment the product is also used extensively for bulk handling applications. Once cured **MAXCERAM 400 – HEAVY DUTY CERAMIC WEAR COMPOUND** provides a course hard-wearing sacrificial barrier, protecting the parent metal from erosion and wear, 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

Appearance	Base Activator Mixed	Dark grey paste Light grey paste Dark grey paste
Mixing Ratio	By Weight By Volume	4:1 3:1
Density	Base Activator Mixed	1.82 1.38 1.71
Volume Capacity		2290cc/5kg
Solids Content		100%
Sag Resistance	Nil at	20 mm
Usable Life	10°C 20°C 30°C	90-100 minutes 50-60 minutes 30-35 minutes
Coverage	5kg at a nominal thickness of 4mm	0.73sqm/kg

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Cure Times @ 20°C	movement without load or immersion: Machining and light loading: Full loading and cold-water immersion: Hot water and chemical immersion:	4 hours 8 hours 4 days 6 days
Storage Life	Unopened and stored in dry conditions (15-30°C)	5 years
Abrasion Resistance	Taber CS17 Wheels/1 Kg load	21mg loss/1000 cycles 0.012cc loss/1000 cycles
Adhesion	Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75 micron profile	148kg/cm² (2100psi)
Compressive Strength	Tested to ASTM D 695	1089kg/cm² (15,500psi)
Corrosion Resistance	Tested to ASTM B117	5000 hours
Flexural Strength	Tested to ASTM D790	420kg/cm² (6000psi)
Hardness	Rockwell R to ASTM ASTM D785	100
Heat Resistance	Suitable for use in immersed conditions at temperatures up: Resistant to dry heat up to:	60°C 120°C
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.

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