Wencon Ceramic Cream

The epoxy compound for repair and rebuilding of deteriorated metal parts, exposed to excessive wear.

- High wear resistance
- High temperature resistance
- Strong adhesion to all metal surfaces
- Easy mixing and application
- High abrasion resistance

General information

Wencon Ceramic Cream is a basic two-component,epoxy compound suitable for a wide range of applications. The compound is used for repair and rebuilding of worn, damaged, cracked and corroded metal parts.

Wencon Ceramic Cream shows many of the same characteristics of metal, which together with outstanding adhesion to all metallic surfaces makes the repair compound highly suitable for repair of corroded and worn metals.

Wencon Ceramic Cream is non conductive and will therefore not cause bi-metallic corrosion. After curing the compound is resistant to oil, water, salt water and most diluted acids and a range of solvents. Heat resistance ranges from 200° C (392° F) in corrosive and heavy load environments and up to 300° C (572°F) when applied as a filling compound.

Application areas

Wencon Ceramic Cream has a high abrasion resistance, making it suitable for applications on propeller nozzles, rudders, thruster tunnels and housings. In addition, the product also offer high temperature resistance, which makes it ideal for applications on gas scrubbers, condensers and end-covers.

Mixing

Wencon products are designed to be simple to use and cost effective. Easy mixing ratios (1:2 by volume) reduce waste to a minimum and high specific volume gives high coverage rates.

Product numbers:		IMPA no.	ISSA no.
No. 1016	Wencon Ceramic Cream, 1 kg (2,2 lb) unit	812592	N/A

WENCON®

GENERAL DESCRIPTION

Two-component solvent free paste consistency epoxy repair compound for rebuilding of deteriorated metal parts, exposed to excessive wear.

SURFACE PREPARATION

The surface must always be dry, clean and degreased

Applying to new steel surface:

- Grit blasting to SA 2,5
- if Grit blasting is not possible use grinding
- After grinding the surface must be degreased with Wencon Bio Cleaner

Repairing old steel surface:

- Grit blasting to SA 2,5
- Sweat out water and salts
- Grit blasting to SA 2,5 again
- Profile Rz 75-110 microns

MIXING RATIO

Mix by volume 1:2. Mix until an even colour is obtained.

POT LIFE

Depending on amount mixed and temperature. Mixed in small amounts, the pot life is approximately 30-40 minutes at 20°C (68°F)

APPLYING

Wencon Ceramic Cream has a paste consistency and is applied by spatula.

CURING TIME

Curing will take place in 10-15 hours at 20°C (68°F)

REDUCED CURING TIME WITH INFRARED

This product is tested with and suitable for infrared curing. Curing with infrared radiation can reduce curing time significantly. Result can vary, depending on circumstances and equipment used.

MACHINABLE

After curing, the product can be machined, drilled and worked like metal.

TECHNICAL DATA

Hardness Shore D: 80 **(DIN 53505)**

Tensile strength: 25,8 N/mm² - 3671 p.s.i. **(DIN 53454)**

Compressive strength:

Modulus of elasticity: 2799 N/mm² - 398.000 p.s.i. **(DIN 53454)**

Rcrack: 65 N/mm² -9.500 p.s.i. **(DIN 53454)**

Shear adhesion: 30,80 N/mm² - **(ASTM D1002)**

Adhesion to steel: 6,7 N/mm² - **(ISO 4624)**

Abrasion Resistance (Taber wear test): 25.6 **(ISO 7784-1)**

SPECIFIC VOLUME

538 cm³ per kilogramme (32,8 cu inch/kg)

TEMPERATURE RESISTANCE

Corrosion:	200°C (392° F)
Light load:	250°C (482°F)
As filler:	300°C (572°F)

CHEMICAL RESISTANCE

The compound is resistant to oil, water, salt water and most diluted acids and alkalis as well as a range of solvents.

SHELF LIFE

At 20°C (68°F) : 3 years

HANDLING PRECAUTIONS

Read the Wencon Instruction for Use and the Safety Data Sheet.