

Wencon Ceramic Coating

The versatile and cost effective coating product for general repair, maintenance and protection of surfaces, exposed to excessive wear.

- High wear resistance
- High temperature resistance
- Strong adhesion to all metal surfaces
- Efficient double coat system
- High coverage rate

General information

Wencon Ceramic Coating is a two-component, liquid epoxy coating suitable for a wide range of applications. It provides a smooth non porous surface, which is resistant to bi-metallic corrosion, light chemical aggression, corrosion and erosion as well as impingement.

Wencon Ceramic Coating offers resistance to oil, water, salt water and most diluted acids and alkalis as well as a range of solvents. Heat resistance ranges from 220° C (428°F) in corrosive and heavy load environments and up to 320° C (608°F) when applied as a filling compound.

Application areas

Wencon Ceramic Coating has a high abrasion resistance, making it suitable for applications on propeller nozzles, rudders, thruster tunnels and housings. Typical applications are coating of surfaces rebuild after deterioration and protection against wear, corrosion and bi-metallic corrosions. In addition, the product also offer high temperature resistance, which makes it ideal for applications on gas scrubbers, condensers and end-covers.

Wencon Ceramic Coating is a double coat system and is consequently supplied in two different colours, light grey and light green.

Mixing

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



Product numbers:

No. 1017	Wencon Ceramic Coating, light grey - 0,5 kg (1,1 lb)
No. 1018	Wencon Ceramic Coating, light green - 0,5 kg (1,1 lb)

IMPA no.

812593
812594

ISSA no.

N/A
N/A

GENERAL DESCRIPTION

Two-component solvent free liquid epoxy coating for general repair, maintenance and protection of surfaces 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
- Profile 75 microns

Repairing old steel surface:

- Grit blasting to SA 2,5
- Sweat out water and salts
- 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 20-30 minutes at 20°C (68°F)

APPLYING

Wencon Ceramic Coating is liquid and is applied by brush, roller or spatula.

OVER COATING

Wencon Ceramic Coating is a double coat system. The over coating time can vary from one to three hours depending on temperature. The second coat must be applied whilst the first coat is still tacky. If full curing has occurred a light sandblasting or grinding is necessary prior to the second coat.

CURING TIME

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

MACHINABLE

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

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.

COVERAGE RATE

Theoretical: 0,91 kg per m² (0,19 lb/sq. ft.) at 600 microns

Practical: 1,2 kg per m² (0,25 lb/sq. ft.)

TECHNICAL DATA

Hardness Shore D: 81

Tensile strength: 25,4 N/mm² - 3614 p.s.i. **(DIN 53454)**

Compressive strength

Modulus of elasticity: 3030 N/mm² - 431,000 p.s.i. **(DIN 53454)**

Rcrack: 124 N/mm² - 18,000 p.s.i. **(DIN 53454)**

Shear adhesion: 28,90 N/mm² - **(ASTM D1002)**

Adhesion to steel: 4,5 N/mm² - **(ISO 4624)**

Abrasion Resistance (Taber wear test): 21.9 **(ISO 7784-1)**

SPECIFIC VOLUME

658 cm³ per kilogramme (40,2 cu inch/kg)

TEMPERATURE RESISTANCE

Corrosion: 220°C (428°F)

Light load: 260°C (500°F)

As filler: 320°C (608°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.