

UM Ceram Steel P

(product-number 1683)

PRODUCT DESCRIPTION

Ultrametal Ceram steel P is a putty polymer system and consists of the two components resin (comp. A) and hardener (comp. B), supplied in the correct quantities and ready to mix.

It restores worn, eroded, corroded or damaged metal surfaces and parts bringing them back to full operational use and visual appearance with additional anticorrosion and outstanding technical properties.

TYPICAL APPLICATIONS:

- Filled with different ceramic fillers to obtain high wear resistance for lining and coating to protect against aggressive matters.
- Pump, tank and heat exchanger coatings
- Axes and shaft repairs
- Maintenance and repair of all metal parts
- Corrosion protection
- Refurbishment projects
- Chemical cold welding

PROPERTIES

- Resistant to chemical and physical attacks
- Low shrinkage, perfectly usable for large areas
- Long pot life, short curing time

SHELF LIFE

- 24 Months

APPLICATION INSTRUCTION

Preparation

Roughen adhesion areas and clean chemically with **DIAMANT Cleaner FL 1417**. The surface has to be clean and dry and within the optimum working temperature range between +5 / +45 °C.

Mixing

Pour the hardener (comp. B) fully into the resin (comp. A) container. Mix manually using a spatula. Mix until the hardener has mixed well into the tougher resin. Ensure that all the material is removed from the walls and sides of the tin and is mixed properly. After mixing the material should be applied immediately.

Application

The working temperature must be in the acceptable range between +5 / +45 °C. At first apply a thin adhesion layer. Then add the remainder up to the desired layer thickness.

Curing

Surfaces are usable in 1 hours for light loading. Completely cured and usable for full loading after 24 hours.

Mixing rate

Resin 1683A with hardener 1683B:
668:332 by weight
or
2:1 by volume



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Technical Data	
Pot Life(+20°C) [Min]	15
Cure time (+20°C) [h]	3
Specific Weight [g/cm³]	2,1
E-Modulus DIN 53457 [N/mm²]	5100
Hardness [Shore A]	92
Compressive Strenght [N/mm²]	170
Bending Strength[N/mm²]	84
Tensile Strenght [N/mm²]	72
Shear Strength [N/mm²]	21
Impact Strenght [N/mm²]	5,8
permanent Temperatur Resistant [°C]	-32°C up to 160°C
temporary	280°C
Viscosity (+20°C) [mPas]	putty
Shrinkage Cure	hardly measurable / compensates using risers

All material values are average values and vary due to mixing ratio, material quantity and environmental conditions. The mentioned material values are based on normal conditions (STP) of 20°C (273K / 31,73°F) and 1013mbar (1013hPa).

SAFETY

Read the appropriate safety data sheet before using the product and proceed accordingly. For questions, our service technicians are always available.

WARRANTY

DIAMANT guarantees the product characteristics listed here unless the material is stored and applied in accordance with the rules. DIAMANT is not responsible for the processing and handling of the material.