

■ ultrametal SMART RAPID #2475

Product description

DIAMANT ultrametal SMART Rapid is a high-quality, two-component, filled polymer material for repairing and patching metals. The solvent-free epoxy resin system has high chemical resistance and does not corrode. The product is bisphenol A-free and available in cartridges.

Characteristics

- Can be machined like metal: filing, milling, turning, drilling
- Perfect metal characteristics
- No shrinkage, therefore ideal for use on large surfaces
- Long pot life
- High mechanical strength
- Can be painted over
- Mechanically resilient

Typical applications

- Coating of pumps, tanks and heat exchangers
- Axle and shaft repairs
- Maintenance and repair of all metal parts
- Refurbishment projects

Accessories

- Hand dispenser (dispensing gun) (item no. #179)
- DIAMANT cleaner (item no. #1417)
- Spatula (item no. #78)
- Mixing coil (item no. #8163)

Available in the following versions

ARTICLE	PRODUCT	DESCRIPTION
#2475	ultrametal SMART Rapid	50 ml cartridge

Product data Delivery condition

PROPERTY	VALUE
Colour tone resin	Aluminium
Colour hardener	Beige
Density resin	1.28 g/cm ³
Density hardener	1.28 g/cm ³
Density in mixture	1.28 g/cm ³



PROPERTY	VALUE
Mixing ratio	50:50
Mixing ratio (by volume)	50:50 by volume

Mixed product data (rich)

PROPERTY	VALUE
Colour tone resin	Aluminium
Colour hardener	Beige
Colour of final product	Aluminium
Stability	up to 5 mm
Pot life	10 minutes
Processing temperature	5 - 50 °C

Product data for reacted product

PROPERTY	VALUE
Colour of final product	Aluminium
Density in mixture	1.28 g/cm ³
Temperature resistance	120 °C
Hardness	75 ShoreD
Curing mechanically solid	1 hour at 20 °C
Curing to final strength	6 hours at 20 °C

Storage / Shelf life

Store in the original, unopened container in a dry, cool place free from frost.
Shelf life: 18 months. Protect from direct sunlight. Higher temperatures reduce shelf life.

Preparation / Processing

Roughen the bonding surfaces and clean them with DIAMANT Cleaner (item no. #1417). The surface must be free of grease, dry and clean.

Mixing

Use without mixing coil:

Squeeze the required amount out of the cartridge and mix thoroughly in a separate container.

Use with mixing coil:

Discharge the material above the mixing screw and discard the first 2-3 cm. Then begin application.

Curing

The treated surfaces can be used for light loads after 18 hours. After 24 hours, the surface is completely hardened and can be used for full loads.

Disposal

Any unused material remaining in the cans can be disposed of normally (EAKV 170203) if it has been mixed in the correct proportions and has completely hardened. Unmixed material must be disposed of as chemical waste (EAKV 080111). When you book the DIAMANT service team, we will dispose of the waste for you.

Safety data sheet

Please read the relevant safety data sheet before processing the product. Safety data sheets are available on request at info@diamant-polymer.de or by telephone on +49-2166-98360. DIAMANT guarantees the product properties as long as they are stored and used in accordance with the specifications listed here. DIAMANT accepts no responsibility for the processing of the material. Our technicians will be happy to answer any further questions you may have.

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This edition replaces all previous versions.

The technical data listed here was determined under laboratory conditions and verified by quality assurance processes on the day of product manufacture. We reserve the right to make changes without prior notice. The customer is responsible for verifying the up-to-dateness of the data and should contact DIAMANT before ordering the material. Application, use and processing are beyond our control and are therefore the sole responsibility of the purchaser. Should liability nevertheless arise, this is limited to the value of the goods supplied by us and used by you. We guarantee the flawless quality of our products in accordance with our general terms and conditions of sale and delivery. All technical data vary depending on the loads and conditions of use. We will provide specific application data on request in each individual case.