

■ dichtol HM #2407

Product description

dichtol HM 2407 is a specially developed 2-component impregnation system with a high solids content and high chemical resistance. With dichtol HM 2407, even warm objects or TS coatings from 20 °C to 120 °C surface temperatures. The cured product is slightly flexible and can therefore compensate for thermal expansion.

Characteristics

- High penetration depth
- Corrosion and weather resistant
- High electrical breakdown strength
- High solid content (>96%)
- Resistant to acids and alkalis
- Sealing directly on warm surfaces (up to +120 °C)
- Long pot life
- Very good adhesion to metals and ceramics
- Versatile application options: dipping, brushing, injecting, spraying



Typical Application

- Capillary-active impregnation of micropores and hairline cracks
- Sealing of TS layers, especially in ceramic insulation layers

Available in the following Versions

ARTICLE	PRODUCT	
#2407	dichtol HM	100 ml, 500 ml, 1 litre
Special sizes on request		

Product data delivery state

PROPERTY	VALUE
Colour component A (resin)	slightly yellowish
Shelf life	1 year at (5 °C - 20 °C)
Density	1,05 g/cm ³
Viscosity	22 [sec] / 75 (mPas)
Mixing ratio	2407A (resin) : 2407B (hardener) 75 : 25 (by weight)

Product data mixed

PROPERTY	VALUE
Pot life 100 g at 20 °C	12 hours
Pot life for thin layers:	
20 °C	6 days
50 °C	8 hours
80 °C	2 hours
Processing temperature	20 °C to 120 °C

Product data reacted

PROPERTY	VALUE
Temperature resistance (permanent)	200 °C
Temperature resistance (short term)	220 °C
Wet film thickness	20 µm
Colour	Slightly yellowish
Pore size	0 - 0,5 mm

Storage / shelf life

Store in the original, unopened container in a dry, cool and frost-free place (+5 °C to +20 °C). Shelf life 1 year.

Processing / preparation

Dirt residues, foreign bodies, grease and other substances must be completely removed from the pores to be sealed. We recommend the use of DIAMANT cleaner #1417 for this purpose.

Application

Mix the two material components very well in a clean container in the correct mixing ratio, exact weighing is essential, or mix the matching containers supplied completely with each other. The object temperature should not exceed the application temperature of 120 °C and should not fall below 20 °C, otherwise the penetration of the polymer is not 100% guaranteed. Comfort zone is 40 °C to 80 °C.

Brushing & spraying

Apply dichtol evenly in about 4 working steps at intervals of about 1 minute and keep the surface moist for 5 minutes. This allows dichtol to penetrate deep into the pores.

Inject

Inject dichtol into the blind hole (or similar) and leave to act for 5 minutes. If necessary, siphon off/pour out excess material after the exposure time.

Dive

Completely immerse the component to be treated in dichtol. After a reaction time of approx. 10 minutes, the component can be removed from the container.

Curing

The curing time depends on the temperature. The higher the temperature, the faster it hardens. At 80 °C, the curing time should be approx. 2-3 hours. At 20 °C it is approx. 24-36 hours.

Special notes

Additive manufactured components vary greatly in terms of pore size and frequency depending on the material and printing process used, as well as other parameters. The specified exposure times are therefore only a guide. Extending the exposure time improves the infiltration of the sealer into the component and thus the sealing effect. If the components are not yet sufficiently sealed, we recommend a longer contact time or, if necessary, a second application process.

Waste disposal

Do not allow to enter the sewage system or bodies of water. Waste and containers must be disposed of in a safe manner. Disposal in accordance with Directive 2008/98/EC on waste and hazardous waste. Suggested list of waste codes/waste designations according to EWC 080111* Waste paint and varnish containing organic solvents or other hazardous substances *Hazardous waste according to Directive 2008/98/EC (Waste Framework Directive). Non-contaminated and completely emptied packaging can be recycled. Containers that have not been properly emptied are hazardous waste.

Safety data sheet

Please read the relevant safety data sheet before using the product. Safety data sheets are available on a daily basis on request via 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 the 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.