

## ■ dichtol AM Makro Spray #2570

### Product description

dichtol AM Makro is a ready-to-use polymer system for sealing additively manufactured components. The solvent-based sealer is suitable for large pores. The sealant can be used to seal additively manufactured components against various liquids and gases and protect them from environmental influences. The sealer can be used for all common printing processes and printing materials.

### Characteristics

- Ready to use, no mixing required
- Very good infiltration behaviour
- Fast curing at room temperature
- Colourless after curing
- Good chemical resistance
- Good recoatability with solvent-free paints
- Drinking water conformity according to KTW-BWGL (German Federal Environment Agency)



### Typical applications

- Sealing of additively manufactured components to seal against various media (liquids and gas-es)
- Increasing the mechanical strength
- Protection of surfaces against soiling and the influence of media
- Increasing the product service life

### Available in the following versions

ARTIKLE	PRODUCT	DESCRIPTION
#2569	dichtol AM Makro	1 Litre, 5 Litre, 10 Litre, 200 Litre
#2570	dichtol AM Makro Spray	500 ml spraying can

### Product data condition of delivery

PROPERTIES	VALUE
Colour	Colourless
Density	0,90 g/cm <sup>3</sup>
Viscosity	40 – 60 mPas
Curing time at 20°C, surface dry	6 min
Curing time at 20°C, fully cured	24h
Application temperature	Up to 40 °C
Yield	1L for 10 m <sup>2</sup>

## Product data fully cured product

PROPERTIES	VALUE
Colour	Colourless
Temperature resistance permanently	300 °C
Temperature resistance short-term	350 °C
Dry film thickness	10 - 15 µm
Suitable pore size	0,1 – 0,5 mm

## Storage / shelf life

Store in the original, unopened container in a dry, cool and frost-free place (+5°C to +30°C).

Shelf life 5 years.

Close the opened container as airtight as possible after use.

## Preparation

The component to be sealed must be completely free of dirt, foreign bodies (e.g. residual powder), grease and other adhesions. We recommend the use of DIAMANT Cleaner #1417 for this purpose, provided the printing material has sufficient chemical resistance.

## Application

The product is a 1-component system. Please consider the processing temperatures specified in the technical data. Application on surfaces that are too warm can have a negative effect on the penetration behaviour of the sealer, as can application at temperatures that are too low.

### Spraying

This method is particularly suitable for components with very large surfaces that need to be evenly sealed. Use the ready-to-use spray bottle or a suitable paint spray gun and spray the sealer onto the surface to be sealed. To ensure a sufficient contact time of at least 5 minutes, keep the surface moist by spraying several times.

## Curing

The sealer physically hardens in a few hours (approx. 1 hour per mm of wall thickness). The sealer is dry on the surface after just a few minutes so that the components can be moved again quickly. Curing at an elevated temperature in an oven is not necessary, but can significantly shorten the curing time.

## Special Information

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.

## Disposal

Waste and containers must be disposed of in a safe manner. Disposal according to Directive 2008/98/EC on waste and hazardous waste. Proposal list of waste keys/waste names according to ECAC 080 111\* Waste paints and varnishes containing organic solvents or other hazardous substances \*Hazardous waste according to Directive 2008/98/EC (Waste Framework Directive). Non-contaminated and empty packaging can be recycled. Containers that are not emptied properly are hazardous waste.

## Safety Data Sheet

Please read the relevant safety data sheet before processing the product. Safety data sheets are available on a daily basis on request via [info@diamant-polymer.de](mailto: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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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.