dichtol WFT #1532

Product description

dichtol WFT is a very thin, high-performance polymer for infiltration, impregnation and sealing of porous structures, layers and components. dichtol WFT independently penetrates porous structures and cracks and seals them permanently and reliably. The product has a very high capillary activity and cures without heat input under ambient conditions. The application is done atmospheric, i.e. without vacuum or pressure. The cured polymer fills open pores or cracks and has good resistance to oils, lubricants and coolants.

Characteristics

- Efficient material consumption due to punctual application even with vagrant porosities
- Various applications by dipping, injecting, spraying or brushing
- Good chemical resistance
- Temperature resistant up to + 300°C
- Drinking water and food authorisation

Typical applications

- Impregnation of metals, impregnation of castings
- Sealing of thermally sprayed coatings (sealers for APS, HVOF, LDS, flame spraying)
- Infiltration of 3D printed components, additive manufacturing, generative manufacturing

Pack sizes

Article	Description
M04 1 litre	tin can with resealable closure

Custom sizes on request.

Product data condition of delivery

Hue	colorless (transparent)
Storabillity	5 years at 5°C to 20°C (store in a dry place)
Density	0,88 g/cm³
Viscosity	12 mPas
Grain	does not contain pigments or particles
Mixing ratio	1-component product, mixing is unnecessary
Curing at +20°C:	-Surface drying after 6 minutes -mechanically editable after 15min -chemically resistant after 60min
at +40°C:	-Surface drying after 3min
Processing temperature	+10 °C to +40 °C
Usage	1 litre for ca. 20m²

Product data (outreacted product)

Temperature resistance (permanent)	300 °C
Temperature resistance (briefly)	350 °C
Dry film thickness	4 µm

Storage / Shelf life

Store in original, unopened container in a cool, dry place (+5°C to +30°C). Shelf life 5 years.

Processing / Preparation

Dirt residues, foreign bodies, grease and other substances must be completely removed from the pores to be sealed. Crack testing agents can have a negative effect on the penetration behaviour of the sealer. For cleaning dirty surfaces we recommend DIAMANT Cleaner #1417.

Application

The product is a 1-component system. Please observe the application temperatures specified in the technical data. Application on too warm surfaces as well as application at too low temperatures can negatively influence the penetration behaviour of the sealer.

Brush & Spray

apply sealant crosswise in 4 working steps at intervals of about 1 minute. Keep damp on the surface for at least 5 minutes to ensure sufficient time for deep penetration.

Inject & Fill

dichtol into the space to be sealed (e.g. blind hole, threaded hole, cooling channel, etc.) and allow to react for at least 5 minutes. Then, if necessary, pour off excess material.

Dip

Dip the component to be treated in dichtol and after a reaction time of at least 2 minutes, apply dichtol again. Remove again after 5 minutes. Please make sure to drain the component properly. It is recommended to move the component during dripping to prevent deposits of dichtol from forming in undercuts or cavities.

Curing

dichtol cures completely under room conditions. Curing can be accelerated by temperature.

Disposal

Do not empty into drains or water courses. Waste and containers must be disposed of in a secure manner. Disposal according to Directive 2008/98/EC on waste and hazardous waste. Proposal list for waste codes/waste designations according to EAKV 080111* Waste paints and varnishes containing organic solvents or other hazardous substances *Hazardous waste according to Directive 2008/98/EC (Waste Framework Directive). Uncontaminated and emptied packaging can be recycled. Containers that are not properly emptied are hazardous waste.

Safety Data Sheet

Please read the appropriate safety data sheet before processing the product. Material Safety Data Sheets are available on a daily basis upon request via info@diamant-polymer.de or by phone +49-2166-98360.DIAMANT guarantees the product properties as long as they are stored and used according to the specifications listed here. DIAMANT does not assume any responsibility for the processing of the material. Our technicians will be happy to answer any further questions you may

have.

Disclaimer

The following supersedes the buyer’s documents. Seller makes no express or implied representations or warranties, including merchantability or fitness for a particular purpose. Although the advice and information contained in this publication is based on our own findings and is believed to be reliable, we cannot accept any responsibility for the suitability or results of the processing of the products described herein, nor for any loss or damage caused directly or indirectly by the processing of our products. Before using the described products, the processor is obliged to ensure the quality, safety and other relevant properties by his own tests. We guarantee the flawless quality of our products in accordance with our General Terms and Conditions.The Buyer’s sole remedy and the Seller’s sole liability for any claims are the Buyer’s purchase price. No reference in this document may be construed as an incentive, recommendation or permission to disregard existing intellectual property rights. When handling our products, the industrial hygiene and legal regulations must be observed. For the rest, we refer to the corresponding safety data sheets.This edition replaces all previous versions