

## ■ dichtol WFT PTFE #2508

### Product description

dichtol WFT PTFE is a highly fluid, high-performance polymer for infiltrating, impregnating, and sealing porous structures, layers, and components. dichtol WFT PTFE penetrates porous structures and cracks independently and seals them permanently and reliably. The product has very high capillary activity and cures at room temperature without the application of heat. It is applied at atmospheric pressure, i.e. without vacuum or pressure. The cured polymer fills the open pores or cracks and exhibits good resistance to oils, lubricants, and coolants.

### Characteristics

- Efficient material consumption through selective application, even with wandering porosities
- Versatile application options through dipping, injecting, spraying, or brushing
- Good chemical resistance
- Temperature resistant up to + 300°C
- Approved for use with drinking water and food
- Non-stick effect through PTFE additive



### SEALER PENETRATION TEST

On request, we can verify the penetration depth of our sealers for your special thermal spray coatings. We developed the DIAMANT penetration depth function test for this purpose back in 2018. With the help of this in-house test procedure, we are able to determine the penetration depth of sealers in thermal spray coatings. With the data obtained, we are able to adapt our sealers to your coating for maximum penetration depth. Interested? You can find more information on our website at:

<https://www.diamant-polymer.de/en/industry/thermal-spraying/permeability-test/>

### Typical applications

- Impregnating metals, impregnating castings and cast parts
- Sealing thermally sprayed coatings (sealer for APS, HVOF, LDS, flame spraying)
- Infiltrating 3D-printed components, additive manufacturing, generative manufacturing

### Available in the following versions

ARTICLE	PRODUCT	DESCRIPTION
#2508	dichtol WFT PTFE	1 Litre
Special sizes on request		

### Product data delivery state

PROPERTY	VALUE
Colour	White
Density 20°C	0,88 g/cm <sup>3</sup>
Viskosity 20°C	15 mPas

## Product data mixed

PROPERTY	VALUE
Processing temperature	+10 °C to + 40 °C
Curing at 20 °C	Surface dry after 6 minutes
Curing at 20 °C	Can be machined after 15 minutes
Curing at 20 °C	Chemically resistant after 60 minutes
Yield	1 litre covers approx. 20 m <sup>2</sup>

## Product data reacted

PROPERTY	VALUE
Colour	Milky transparent
Temperature resistance (permanent)	+ 300 °C
Temperature resistance (short term)	+ 350 °C
Dry film thickness	12µm

## Storage / shelf life

Store in the original, unopened container in a dry, cool and frost-free place (5 °C to + 20 °C). Shelf life 12 months.

## Processing / preparation

Dirt residues, foreign bodies, grease, and other substances must be completely removed from the pores to be sealed. Crack testing agents can negatively affect the penetration behavior of the sealant. We recommend DIAMANT Cleaner #1417 for cleaning contaminated surfaces.

## Application

This product is a single-component system. Please observe the application temperatures specified in the technical data. Application on surfaces that are too warm or too cold can negatively affect the penetration behavior of the sealant.

### Brushing & spraying

Apply dichtol in 4 steps at intervals of approx. 1 minute in a criss-cross pattern. Keep the surface moist for at least 5 minutes to allow sufficient time for deep penetration.

### Injecting & filling

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

### Immersion

Immerse the component to be treated in dichtol and remove after a reaction time of at least 5 minutes. Please ensure that the component is allowed to drain properly. It is recommended to move the component while it is draining to prevent deposits of dichtol from forming in undercuts or cavities.

## Curing

dichtol WFT PTFE hardens completely under room conditions. The hardening process can be accelerated by temperature.

## Disposal

Do not allow to enter drains 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](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.

## 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 information and data in this publication are based on our own results and are believed to be reliable, we cannot assume any responsibility for the suitability or results of the processing of the products described herein, nor do we assume any responsibility for loss or damage caused directly or indirectly by the processing of our products. The processor is obliged to ensure the quality, safety and other relevant properties of the products described by carrying out his own tests before using them. We guarantee the flawless quality of our products in accordance with our General Terms and Conditions, and the sole remedy of the buyer and the sole liability of the seller for any claims shall be the purchase price of the buyer. No reference in this publication shall be construed as an inducement, recommendation or authorization to infringe any intellectual property rights. When handling our products, the occupational hygiene and legal regulations must be observed. Please also refer to the relevant safety data sheets; 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.