

## dichtol WFT Macro

Product number #1546

### Product description

dichtol WFT Macro is a ready-to-use 1-component impregnation system based on a special polymer formulation. Due to the versatile application possibilities (dip, brush, inject, spray), dichtol WFT Macro enables the reliable impregnation of leaking components.

With dichtol WFT Macro large pores (from 0.1 up to 0.5 mm) can be closed. This allows a high pressure tightness, even with difficult object structures. For locally known leaks, punctual impregnation ensures efficient use of material. Likewise, the direct application on site makes long waiting and delivery times unnecessary.

### Characteristics

- Efficient material consumption
- Varied application possibilities through: dip, brush, inject, spray
- Temporary corrosion protection (transport protection)
- Drinking water and food tested (hygiene institute Gelsenkirchen)

### Typical application

- Capillary-active deep impregnation of micropores, hairline cracks and porosities
- Punctual serial impregnation
- Single impregnation (of large components)

### Package size

1 l  
5 l  
200 l

### Storage / shelf life

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

### Technical data

| Technical data  | dichtol WFT Macro #1546 |
|---|-------------------------|
| <b>Application</b>  |                         |
| dip   | x                       |
| brush   | x                       |
| inject  | x                       |
| spray   | x                       |
| Surface temperature for application [max.]                      | 40°C                    |
| <b>Exposure time [min.]</b>                                     |                         |
| up to 5 mm wall thickness                                       | 6                       |
| 5 - 10 mm wall thickness  | 10                      |
| 10 - 15 mm wall thickness                                       | 15                      |
| > 15 mm wall thickness  | 40                      |
| <b>Curing at + 20°C [hours]</b><br><b>load-bearing capacity</b> | light (full)            |
| Surface drying [min.]   | 6                       |
| up to 5 mm wall thickness                                       | 8 (24)                  |
| 5 - 10 mm wall thickness  | 12 (24)                 |
| 10 - 15 mm wall thickness                                       | 19 (48)                 |
| > 15 mm wall thickness  | 28 (48)                 |
| <b>Technical data</b>   |                         |
| Pore size [mm]  | 0.1 - 0.5               |
| Continuous temperature resistance [°C]                          | -40 / +300              |
| Short-term. Temperature resistance [°C]                         | -40 / +450              |
| Viscosity DIN4 cup, + 23°C<br>ISO 2431 (4 mm nozzle) [sec.]     | 17                      |
| Remaining<br>Surface layer thickness [µm]                       | 10                      |

All material values are average values and vary due to the mixing ratio, the amount of material and the environmental conditions. The values stated are based on testing under normal conditions (STP) + 20°C and 1013 mbar.

# Technical data sheet

## Processing / Preparation

In the pores to be sealed, dirt, foreign matter, grease and other substances must be completely removed. For this we recommend the use of Diamant cleaner (# 1417).

## Application

The object temperature should not exceed 40°C, otherwise the penetration of the polymer can not be guaranteed 100%.

### ▪ brush & spray:

Apply dichtol thinly in 4 steps at intervals of about 1 minute and keep moist on the surface for 5 min. This can penetrate dichtol pore-deep.

### ▪ inject:

Inject dichtol into the blind hole (or similar) and allow to act for 5 minutes. If necessary, remove excess material again after the exposure time.

### ▪ dip:

Completely immerse the component to be treated in dichtol. After an exposure time of about 10 minutes, the component can be removed from the container.

## Curing

dichtol WFT Macro dries physically in a few hours (about 1 hour per mm wall thickness). Due to the rapid drying of dichtol, it is possible to reuse the components after a short time. See table „Technical data“.

## Important note

DIAMANT guarantees the product characteristics as long as they are stored and used according to the DIAMANT instructions. DIAMANT assumes no responsibility for the processing and use of the material.

*If you have further questions, our technicians are at your disposal.*

*Please read the safety data sheet before using the product and follow the safety instructions.*

## Resistance list

| Chemicals              | Conc. in % | WFT Macro |
|------------------------|------------|-----------|
| acetate                |            | –         |
| acetylene              |            | x         |
| alkanes                |            | x         |
| alcohols               |            | x         |
| animal based oils      |            | x         |
| brake oil              |            | x         |
| citric acid            |            | o         |
| crude oil              |            | x         |
| cutting oil            |            | x         |
| diesel fuels           |            | x         |
| diethyl ether          |            | –         |
| engine oil             |            | x         |
| glycol                 |            | x         |
| hydraulic fluid        |            | x         |
| hydrocarbons           |            | x         |
| aromatics              |            | x         |
| hydrochloric acid      | < 20       | –         |
| hydrochloric acid      | > 20       | o         |
| keton                  |            | –         |
| kerosene               |            | x         |
| lubricating oil        |            | x         |
| machine oil            |            | x         |
| machiefat              |            | x         |
| natural gas            |            | x         |
| nitric acid            |            | x         |
| petrol                 |            | x         |
| phthalates             |            | o         |
| plantbase oils         |            | x         |
| potassium chloride, hs |            | x         |
| potassium hydroxide    |            | x         |
| potassium phosphate    |            | x         |
| salicylic acid         |            | o         |
| sulphuric acid         | < 20       | –         |
| sulphuric acid         | > 20       | o         |

**Nomenclature:** hs = aqueous solution / **conc. = Concentration**  
**Symbols:** x = stable / o = conditionally stable / – = unstable  
The measurements were carried out at a temperature of 20°C.  
Individual examinations can be carried out after consultation.

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The listed technical data were determined under laboratory conditions and verified by quality assurance processes at the day of production. Changes are reserved and can be implemented without previous information. The customer is responsible for the verification of data topicality and should be requested before the material ordering at DIAMANT. Application, use and processing of the products happen outside of our control options and therefore lie entirely in the area of responsibility of the customer. Should nevertheless a liability come into question so is this liability limited to the value of the items delivered and used by you. We guarantee the perfect quality of our products according our general sale and delivery conditions. All technical data can differ depending on burden and operating conditions. Specific application data will be provided upon request in every individual case.