

## ■ dichtol HTR HS AS #2531

### Product description

Dichtol HTR HS AS (High Temperature Resistant High Solid Anti Stick) is a highly capillary-active polymer mixture based on silicone resin with non-stick properties. The low viscous system was developed to penetrate very deep into porous structures by capillary force and to shoot this gas and liquid tightness. The material is adjusted to have a very low surface energy and thus minimizes the adhesion of dirt and impurities. The capillary deep impregnation or sealing with dichtol HTR HS AS is resistant up to a maximum temperature of +500°C. Dichtol HTR HS AS is a concentrated 1 component system with a solids content of >98% and is therefore considered a solvent-free system according to VdL-RL04. The high percentage of solids promises permanent and reliable corrosion protection.



### Characteristics

- Temperature resistance up to +500°C
- Base silicone resin offers good electrical insulating properties
- Low surface energy = good non-stick properties
- High solids content >98%
- Fast curing at room temperature / No tempering or heating necessary!
- solvent-free system according to VdL-RL 04
- Easy application, ready to use
- Very good penetration behaviour (proven up to 80% in LDS layers)

### Typical applications

- Capillary deep impregnation of porous structures as well as micropores and hair cracks
- Impregnation of leaking castings and metallic structures
- Sealing of thermal coatings (LDS, APS, HVOF, etc.)
- Sealing of porous graphite and ceramic components

### Pack sizes

Article	Description
M04 1 litres	1 litre can with resealable HZ-closure

Custom sizes on request.

## Product data condition of delivery

Hue component A (resin)	colorless
Storability	1 year - storage at 5°C-20°C
Density	1,14 (g/cm <sup>3</sup> )
Viscosity	140 mPas
Mixing ratio	1-component product, mixing is unnecessary

## Productdata mixed

Curing Surface drying	60min at 200°C or 7 days at 20°C
Processing temperature	+10 °C to +40 °C

## Product data (outreacted product)

Temperature resistance (permanent)	500 °C
Dry film thickness	45 µm

## Storage / Shelf life

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

## Processing / Preparation

The pores to be sealed must be clean and dry. It must be ensured that there are no dirt residues or foreign bodies (e.g. crack detection agents) in the pores, as these 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.

## Brushing & Spraying

apply Dichtol HTR HS AS in several working steps and make sure that the surface to be sealed is covered with a liquid film for at least 5 minutes.

## Injecting & Pouring

In the case of cooling ducts or threaded holes, it has proved effective to pour Dichtol HTR HS AS into the duct and leave it there for at least 2 minutes. Leave on for 5 minutes. If necessary, remove excess material after the exposure time.

## Dipping

Dip the component to be treated in Dichtol HTR HS AS and after a reaction time of at least 2 minutes, apply Dichtol HTR HS AS. 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 from forming in undercuts or cavities.

## Curing

Dichtol HTR HS AS dries under room conditions and cures in the presence of atmospheric humidity. 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 in accordance with 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). Non-contaminated and empty packaging can be recycled. Containers that are not emptied properly 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](mailto: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.

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