

■ dichtol HTR HS 50S #2532

Product description

Dichtol HTR HS 50S (High Temperature Resistant High Solid) is a highly capillary-active polymer mixture based on silicone resin. The low viscous system was designed to penetrate very deep into porous structures by capillary force and seal this gas and liquid tightness. The capillary deep impregnation or sealing with dichtol HTR HS 50S is resistant up to a maximum temperature of +500°C. Dichtol HTR HS 50S is a diluted 1-component system with a solids content of >50%. The high percentage of solids promises permanent and reliable corrosion protection. Diluted version of HTR HS #2530 with improved penetration for very fine pores.

Characteristics

- Temperature resistance up to +500°C
- Base silicone resin offers good electrical insulating properties
- High solids content >50%
- Fast curing at room temperature / No tempering or heating necessary!
- 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

M04 1 litre

Description

1 litre can with resealable HZ-closure

Custom sizes on request.

Product data condition of delivery

Hue component A (resin)	colorless
Storability	store for 1 year, cool and frost-free (5°C to +20°C)
Density	1,00 g/cm ³
Viscosity	60 mPas

Productdata mixed

Curing Drying at +20°C:	-Surface drying after 15 minutes -mechanically editable after 25min -chemically resistant after 60min
Drying at +40°C:	-Surface drying after 9min
Processing temperature	+10 °C to +40 °C

Product data (outreacted product)

Temperature resistance (permanent)	500
Dry film thickness	20 um

Storage / Shelf life

Store in original, unopened container in a cool, dry 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 50S in several operations, making sure that the surface to be sealed is covered with a film of liquid for at least 5 minutes.

Injecting & Pouring

For cooling channels or threaded holes, it has proven effective to pour Dichtol into the channel and leave it there for at least 2 minutes. Leave on for 5 minutes. If necessary, remove excess material after the exposure time.

Dip

Dip the component to be treated in Dichtol and after a reaction time of at least 2 minutes, apply Dichtol. 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 HTR HS 50S 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 waterways. 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 corresponding 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.

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