dichtol HTR HS #2530

Product description

Dichtol HTR HS (High Temperature Resistant High Solid) is a highly capillary-active polymer mixture based on silicone resin. 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 capillary deep impregnation or sealing with dichtol HTR HS is resistant up to a maximum temperature of +500°C. Dichtol HTR HS 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
- 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 litre	

Custom sizes on request.

Product data condition of delivery

Hue component A (resin)	colorless (transparent)
Storabillity	1 year at 5°C to 30°C (store dry)
Density	1,14 g/cm³
Viscosity	140 mPas
Grain	No pigments / particles contained
Mixing ratio	1-component product, mixing is unnecessary
Curing at +20°C:	-Surface drying after 15 minutes -mechanically editable after 25min -chemically resistant after 60min
at +40°C:	-Surface drying after 9min
Processing temperature	+10 °C to +40 °C
Usage	1 litre für ca. 10m²

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 +30°C). Shelf life 1 year.

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 & Pour

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 under room conditions and hardens in the presence of 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 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). 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 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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