

dichtol BN-HT #2604

Product description

DIAMANT dichtol BN-HT is an anorganic, water-based 1-component polymer system for sealing metals, thermally sprayed coatings and other porous materials. The very high temperature resistance and anti-stick effects enable a wide range of applications.



Characteristics

- Ready to use, no mixing required
- Free of VOC (organic solvents)
- Very good adhesion to metals and other materials
- Good wear resistance
- Very high temperature resistance up to 1000 °C
- Good non-stick properties

Typical applications

- Sealing of metals and thermally sprayed coatings
- Particularly suitable for zinc roller coating
- Protection of surfaces against soiling and the influence of media
- Wear-resistant non-stick coating
- Increases product service life

Pack sizes

ARTICLE	PRODUCT		DESCRIPTION
#2604	dichtol BN-HT	1 L 25 L	Boron nitride-based sealer with Tmax 1,000 °C and good non-stick properties. Suitable for zinc roller coatings.

Product data condition of delivery

Colour	White
Density	1,44 g/cm ³
Viscosity	230 mPas
Curing at 20°C, surface dry	20 minutes
Curing at 20°C, fully cured	24 hours
Application temperature	Up to 40 °C
Yield	1L for 20 m ²

Product data fully cured product

Colour	White
Temperature resistance permanent	1,000 °C
Dry film thickness	120 µm
Suitable pore size	2 µm to 50 µm

Storage and shelf life

Store in the original, unopened container in a dry, cool and frost-free place (+5 °C to +30 °C).

Shelf life 1 year.

Close the opened container as airtight as possible after use.

Processing

1. Preparation

The component to be sealed must be completely free of dirt, foreign bodies (e.g. residual powder), grease and other adhesions. We recommend the use of DIAMANT Cleaner #1417 for this purpose, provided the printing material has sufficient chemical resistance. Shake the product well before use. During storage, the fillers may settle at the bottom of the can.

2. Application

The product is a 1-component system. Please consider the processing temperatures specified in the technical data. Application on surfaces that are too warm can have a negative effect on the penetration behaviour of the sealer, as can application at temperatures that are too low.

The application options are briefly explained below. The choice of a suitable application method depends on the size and accessibility of the component surfaces to be sealed.

We recommend using standard paint spraying systems with a nozzle size of 1.6 mm.

Dipping

This method is particularly suitable for small and complex components that need to be evenly sealed. Pour the sealer into a sufficiently sized container and place the components to be sealed inside. After a sealing time of approx. 5 minutes, remove the components and place them on a suitable surface to drain and dry.

Brushing on

This method is particularly suitable for components that are not to be sealed in all areas and for larger surfaces. Apply the sealer to the surface to be sealed using a suitable brush. Ensure that the sealer is left to work for at least 5 minutes. During this time, the surface must be kept constantly moist, so apply several coats if necessary.

Spraying

This method is particularly suitable for components with very large surfaces that need to be evenly sealed. Use the ready-to-use spray bottle or a suitable paint spray gun and spray the sealer onto the surface to be sealed. To ensure a sufficient contact time of at least 5 minutes, keep the surface moist by spraying several times..

3. Curing

The sealer physically hardens in a few hours (approx. 1 hour per mm of wall thickness). The sealer is dry on the surface after just a few minutes so that the components can be moved again quickly. Curing at an elevated temperature in an oven is not necessary, but can significantly shorten the curing time.

Disposal

Do not empty into drains or water courses. Waste and containers must be disposed of in a safe manner. Disposal according to Directive 2008/98/EC on waste and hazardous waste. Proposal list of waste keys/waste names according to ECAC 080 111* Waste colours 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 relevant safety data sheet before processing the product. Safety data sheets are available on a daily basis on request via 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.

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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.