TECHNICAL DATASHEET

SEALER

dichtol HS-EP fast #2615

Product description

dichtol HS-EP fast is a two-component impregnation system based on epoxy resin with 100% solids content, high chemical resistance and fast curing. After curing, this dichtol variant remains crystal clear and hard. With dichtol HS-EP fast 2615, even warm objects or TS coatings with surface temperatures between +5 °C and +100 °C can be sealed.

Characteristics

- High penetration depth
- High solid content (100%)
- High chemical resistance
- Wide application temperature range (between +5 °C and +100 °C)
- Versatile application options: dipping, brushing, injecting, spraying

SEALER PENETRATION TEST
On request, we can verify the penetration depth of our sealers for your special thermal spray coatings. We developed the DIAMANT penetration depth function test for this purpose back in 2018. With the help of this in-house test procedure, we are able to determine the penetration depth of sealers in thermal spray coatings. With the data obtained, we are able to adapt our sealers to your coating for maximum penetration depth. Interested? You can find more information on our website at:
https://www.diamant-polymer.de/en/industry/thermal-spraying/permeability-test/

Typical applications

- Capillary-active impregnation of micropores and hairline cracks
- Sealing of TS layers
- Sealing of TS layers on rollers and cylinders in the printing industry
- Applications that require high chemical resistance of a TS layer

Available in the following versions

ARTICLE	PRODUCT	DESCRIPTION
#2615	dichtol HS-EP fast	1 kg Set
Special sizes on request		

Product data delivery condition

CHARACTERISTIC	VALUE
Mixing ratio (gravimetric)	77,6 : 22,4 g
Mixing ratio (volumetric)	5,3 : 24,7 ml
Density component A	1,1339 g/cm³
Density component B	0,9968 g/cm³

CHARACTERISTIC	VALUE
Density in mixture	1,05 g/cm³
Shelf life	24 Monate

Product data Mixed

CHARACTERISTIC	VALUE
Colour	clear, slightly yellowish
Mixing density	1,05 g/cm³
Mixing viscosity	100 mPas
Pot life 100 g at room temperature	30 min
Processing temperature	5 - 45 °C
Surface temperature during application	5 - 100 °C

Product data cured

CHARACTERISTIC	VALUE
Colour	crystal clear
Density	1,05 g/cm³
Temperature resistance (permanent)	180 °C
Temperature resistance (short term)	250 °C
Dry film thickness after brush application	75 µm
Curing (at +20°C)	24 h
Curing (at +40°C)	8 h

Storage / shelf life

Store in the original, unopened container in a dry, cool and frost-free place (5 °C to + 20 °C). Shelf life 24 months.

Processing / Preparation

The pores to be sealed must be clean and dry. Make sure that there are no dirt residues or foreign bodies (e.g. crack sealant) in the pores, as these can negatively affect the penetration behavior of the sealer. We recommend DIAMANT Cleaner #1417 for cleaning dirty surfaces.

Application

Weigh out the two material components precisely in a clean container and mix them together. The correct mixing ratio is essential. Alternatively, the matching set containers supplied can be mixed together completely. Mix very thoroughly. The object temperature should not exceed the application temperature of +100 °C.

Painting & spraying

Apply dichtol crosswise in 4 working steps at intervals of approx. 1 minute. Keep the surface moist for at least 5 minutes to ensure sufficient time for deep penetration.

Injecting & filling
Fill the space to be sealed (e.g. blind hole, threaded hole, cooling channel, etc.) with dichtol and leave to act for at least 5 minutes. Then pour off excess material if necessary.

Diving
Immerse the component to be treated in dichtol and remove after a contact time of at least 5 minutes. Please ensure that the component drips off properly. It is recommended to move the component while dripping to prevent deposits of dichtol from forming in undercuts or cavities.

Curing

Curing takes place under room conditions through chemical cross-linking. The curing time can be found in the table 'Product data cured'. Temperature and substrate properties can significantly influence the duration. The curing time can be shortened by applying heat. Please note that 100 °C must not be exceeded.

Disposal

Do not allow to enter drains or bodies of water. Waste and containers must be disposed of in a safe manner. Disposal in accordance with Directive 2008/98/EC on waste and hazardous waste. Suggested list of waste codes/waste designations according to EWC 080111* Waste paint and varnish containing organic solvents or other hazardous substances *Hazardous waste according to Directive 2008/98/EC (Waste Framework Directive). Non-contaminated and completely emptied packaging can be recycled. Containers that have not been properly emptied are hazardous waste.

Safety data sheet

Please read the relevant safety data sheet before using 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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