



Technical Data Sheet

Revision-Nr: 7

Date of issue : 10.04.2019

Last change : Aug 3rd 2020

Changes are characterized by a marginal vertical line

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Special Impregnation Sealant IM4500r

This sheet supersedes the one dated: April 19th 2019

Description: Cross linking mixture from mono- and polyfunctional methacrylate-monomers. In conjunction with the pertinent washing bath additive WBA without addition of other additives from the washing bath recyclable.

Physical data of liquid resin:

Appearance: Clear to light yellow, fluorescent on demand

Smell: Pleasant smell like ester

Flammable point: 102°C (DIN 51758)

Boiling point: >200°C at 1013mbar; (66°C at 1,33 mbar)

Viscosity at 20°C: 10 mPas ± 1 mPas
30 ±1s Zahn Cup N° 1
22 ±1s Frikmar Becher N° 3

Density at 20°C: 0,925 ±0,03g/ml

Vapour pressure at 20°C: 0.1 mbar

Washability: very good in conjunction with WBA

Solubility in water: 107 g/l (from soluble parts in the water)

Storage conditions*: non-catalyzed: 12 months at max. 35°C
catalyzed: 12 months at max. 25°C (controlled)

Minimal temperature of storage: 0°C
reduction of catalyst possible

Recommendation: aerate regularly by opening the cork.

Modifications through metals, alkalis, peroxides and direct sunlight

(*) in original packaging; do not keep under inert gas

Gel time at 90°C: 3 to 7min, recommended (catalyzed with 0,4% AZDN; Powder, e. g. 200kg drum + 0,8kg AZDN Powder)
3 to 7min, recommended (catalyzed with 0,8% KT64 Paste; e. g. 200kg drum +1,6 KT64 Paste)

Physical data of hardened resin:

Appearance: Clear plastic with or without some cracks. Fluorescent execution to retrieve the plastic in the porosity of the castings using an UV-lamp.

Hardness: Fresh sealant: 95 Shore A
Recycled sealant (at 0,94 g/ml): typically 80 to 85 Shore A

Temperature range: from -55°C to 250°C
Permanent temperature load max. 200°C
Short temperature load max. 250°C temperature resistance depends on size of porosity

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Chemical resistance: IM4500r has very good chemical resistance to polar and non polar liquids. Chemical resistance list available on request.

Pressure resistance: acc. to ambient metal

Approvals of IM4500r:

- KTW-Test Report: (Hygiene-Institut Gelsenkirchen 2019) Hot water test (85°C)
Cold water test (23°C)
Release for drinking water
- NSF International: (2011, last update June 2020)
Certified to ANSI/NSF 61 Drinking water treatment chemicals
and system components Health Effects
- Lloyd's Register of Shipping: (2020) Statement of non-objection
- TÜV certificate for production of impregnating resins according to DIN ISO 9001 / EN29001 since 1993; renewal in 2017 according to DIN EN ISO 9001:2015
- TÜV certificate for production of impregnating resins according to DIN EN ISO 14001 : 2009 (environmental management; since December 2011); renewal in 2017 according to DIN EN ISO 14001:2015
- Approval with all large car manufacturers
- Additional approvals upon request

All information is given without obligation. Our general business terms and conditions apply.

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