

**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:** light yellow to violet and clear, 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:** 0,94 ±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 - 7 minutes, recommended (catalyzed with 0.4%)

#### 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

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

## Technical Data Sheet

### Special Impregnation Sealant IM4500r

This sheet supersedes the one dated: Nov 04<sup>th</sup> 2014  
acc. to ambient metal

Revision-Nr: 5

Date of issue : 18.10.2010

Last change : Nov 23<sup>rd</sup> 2016

Changes are characterized by a  
marginal vertical line

#### Pressure resistance:

#### Approvals of IM4500r:

- KTW-Homologation:  
(Hygiene-Institut Gelsenkirchen  
2012) Hot water test (85°C)  
Cold water test (23°C)  
Release for drinking water
- NSF International:  
(2011, last update 2014)  
Certified to ANSI/NSF 61 Drinking water treatment chemicals  
and system components Health Effects
- Lloyd's Register of Shipping:  
(2014) Statement of non-objection
- TÜV certificate for production of impregnating resins according to DIN ISO 9001 /  
EN29001 since 1993; renewal in 2009 according to DIN EN ISO 9001:2008
- TÜV certificate for production of impregnating resins according to DIN EN ISO 14001 :  
2009 (environmental management; since December 2011)
- Approval with all large car manufacturers
- Additional approvals upon request

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