

### Special Impregnation Sealant IM4500r

This sheet supersedes the one dated: 03.04.2012

#### 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.

#### 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

#### Pressure resistance:

acc. to ambient metal

- **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*

All information given herein corresponds to our latest status of knowledge. This information is neither a guarantee for product properties nor legally binding. TÜV certificate for the production of the products of impregnation according to DIN ISO 9001 / EN 29001 since 1993; in the new version according to DIN IN ISO 9001:2008 since 2009; TÜV certificate for production of impregnating resins according to DIN EN ISO 14001 : 2009 (environmental management; since December 2011)

