

Sealers and Impregnators

WEICON S 500 HT



Very low viscosity | high-temperature resistant | chemical-resistant

WEICON S 500 HT is a ready-to-use, very low viscosity, colourless impregnating agent which, due to its capillary effect, penetrates into pores and seals them permanently elastic. It has a high thermal resistance up to 500 °C, a very high resistance to aggressive chemicals and gives a high dielectric strength. It is suitable as a sealant for thermal spray coatings. For optimum corrosion protection results and chemical resistance, WEICON S 500 HT must be annealed at 220 °C for 2 hours. The impregnation agent contains solvents.

Characteristics

Colour after curing	colourless
Specific properties	high-temperature resistant
Base	solvent
Viscosity	+25 °C Brookfield 5 - 10 mPa·s

Processing

Component temperature	>3 °C above dew point
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Curing

Final strength	6h IT + 2h 220°C
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Thermal parameters

Temperature resistance	500 °C
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Surface pre-treatment

The successful application of sealers and impregnators depends on the meticulous preparation of the surfaces. This is the most important factor for overall success. Dust, dirt, oil, grease, rust and moisture or wetness have a negative impact on sealing and impregnating. Therefore, before application, the following points must be observed:

The areas or surfaces to be impregnated must be free of any oil, grease, dirt, rust, oxides, paint and other impurities or residues. For cleaning and degreasing deep down into the pores, we recommend WEICON Cleaner Spray S. Afterwards, wipe the surface with a clean, lint-free cloth or blow off with oil-free compressed air until dry.

Processing

WEICON sealers and impregnators are ready for use. They can thus be used directly in the application. Usually, they are applied by means of a brush, spraying, wiping with a solvent-resistant cloth or immersing. It is also possible to fill closed cavities for sealing from the inside. The temperature of the surface to be sealed should be between 15 °C and a maximum of 45 °C. During coating and drying, the ambient temperature should be at least 3 °C above the dew point temperature. Thoroughly brush or spray (wet-on-wet) the surface several times for several minutes or immerse for at least 15 minutes.

Curing

After application, the treated surface should dry at room temperature for 6 hours. To achieve maximum temperature resistance, it is necessary to heat the parts slowly in an oven to 220 °C and anneal for 2 hours. This information is based on approximate values, since curing is strongly influenced by the size and shape of the pores as well as by layer thickness.

Storage

WEICON Sealer and Impregnator S 500 HT should be stored in a dry place at room temperature from +5 °C to +30 °C for at least 24 months after the delivery date. Opened containers must be used up within 6 months.

Instructions for use

When using WEICON products, the physical, safety-related, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Accessories

10000147	Cleaner Spray S, 500 ml, transparent
10000347	Cleaner S, 5 L, colourless, transparent
10024313	Surface Cleaner, 400 ml, transparent
10025288	Surface Cleaner, 5 L, transparent
10009301	WSD 400 Pressurized-Air Spray Can, 1 PCE

Note

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

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WEICON S 500 HT

Available sizes

10062899	WEICON S 500 HT, 1 L
10062900	WEICON S 500 HT, 5 L
10062902	WEICON S 500 HT, 10 L
10062905	WEICON S 500 HT, 28 L

Conversion table

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$	$\text{Nm} \times 8.851 = \text{lb}\cdot\text{in}$
$\text{mm}/25.4 = \text{inch}$	$\text{Nm} \times 0.738 = \text{lb}\cdot\text{ft}$
$\mu\text{m}/25.4 = \text{mil}$	$\text{Nm} \times 141.62 = \text{oz}\cdot\text{in}$
$\text{N} \times 0.225 = \text{lb}$	$\text{mPa}\cdot\text{s} = \text{cP}$
$\text{N}/\text{mm}^2 \times 145 = \text{psi}$	$\text{N}/\text{cm} \times 0.571 = \text{lb}/\text{in}$
$\text{MPa} \times 145 = \text{psi}$	$\text{kV}/\text{mm} \times 25.4 = \text{V}/\text{mil}$

To the product detail page:



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