

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 RT + 2h 220°C
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Thermal parameters

Temperature resistance	500 °C
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Surface pre-treatment

The surface has to be dry, clean and free from dust, oil and grease.

Processing

The layer to be sealed should be treated at least twice wet-on-wet with WEICON S 500 HT within a few minutes or immersed for at least 15 minutes. The temperature of the surface should be at least 3 °C above the dew point and not above 40 °C. The drying time is 6 hours at 25 °C + 2 hours at 220 °C. For plastic models, the temperature must not be above the softening point of the plastic. The impregnating agent is not a primer and must not be coated. The impregnation should be repeated at regular intervals.

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.

Safety and health

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

11202500	Cleaner Spray S, 500 ml, transparent
15200005	Cleaner S, 5 L, colourless, transparent
11207400	Surface Cleaner, 400 ml, transparent
15207005	Surface Cleaner, 5 L, transparent
15811400	WSD 400 Pressurized-Air Spray Can, 400 ml

Available sizes

18100001	WEICON S 500 HT, 1 L
18100005	WEICON S 500 HT, 5 L
18100010	WEICON S 500 HT, 10 L
18100028	WEICON S 500 HT, 28 L

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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Conversion table

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{mm}/25.4 = \text{inch}$
 $\mu\text{m}/25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N}/\text{mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$

$\text{Nm} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{Nm} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{Nm} \times 141.62 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$
 $\text{N}/\text{cm} \times 0.571 = \text{lb}/\text{in}$
 $\text{kV}/\text{mm} \times 25.4 = \text{V}/\text{mil}$

To the product detail page:



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