

Sealers and Impregnators

WEICON S 180W Plus



high adhesive strength | low viscosity | solvent-free

WEICON S 180W Plus is a ready-to-use, very low-viscosity, water-based impregnating agent, which due to its capillary action penetrates into pores easily and seals them permanently elastic. It contains no solvents and is non-flammable. S 180W Plus adheres very well to many surfaces, such as metals and plastics. It can be used as sealing in additive manufacturing – especially for plastic models that are not solvent-resistant. The impregnating agent is temperature-resistant up to 180 °C and has a high solid content.

Charakteristik

Colour after curing	colourless
Specific properties	compatible with plastics
Base	water-based
Viscosity	+25 °C Brookfield 20 - 50 mPa·s
Shelf life	9 mon.

Verarbeitung

Component temperature	>3 °C above dew point
-----------------------	-----------------------

Aushärtung

Final strength	at room temperature 48 h
----------------	--------------------------

Thermal parameters

Temperature resistance	to 180 °C
------------------------	-----------

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 180W Plus 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 more than 40 °C. Filling of closed cavities (cooling circuit) for sealing from the inside is also possible.

To accelerate drying, the temperature can be increased to 40 °C initially after a few hours and to 60 °C after 2-3 more hours. For plastic models, the temperature must not exceed 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.

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.

Available sizes

18050001	WEICON S 180W Plus , 1 L
18050005	WEICON S 180W Plus , 5 L
18050010	WEICON S 180W Plus , 10 L
18050028	WEICON S 180W Plus , 28 L

Conversion table

$(^{\circ}\text{C} \times 1,8) + 32 = ^{\circ}\text{F}$
mm/25,4 = inch
 $\mu\text{m}/25,4 = \text{mil}$
N x 0,225 = lb
 $\text{N}/\text{mm}^2 \times 145 = \text{psi}$
MPa x 145 = psi

Nm x 8,851 = lb·in
Nm x 0,738 = lb·ft
Nm x 141,62 = oz·in
mPa·s = cP
 $\text{N}/\text{cm} \times 0,571 = \text{lb}/\text{in}$
kV/mm x 25,4 = V/mil

To the product detail page:



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.

WEICON Middle East L.L.C.
United Arab Emirates
phone +971 4 880 25 05
info@weicon.ae

WEICON Czech Republic s.r.o.
Czech Republic
phone +42 (0) 417 533 013
info@weicon.cz

WEICON GmbH & Co. KG
(Headquarters) Germany
phone +49 (0) 251 9322 0
info@weicon.de

WEICON Romania SRL
Romania
phone +40 (0) 3 65 730 763
office@weicon.com

WEICON South East Asia Pte Ltd
Singapore
Phone (+65) 6710 7671
info@weicon.com.sg

WEICON Inc.
Canada
phone +1 877 620 8889
info@weicon.ca

WEICON Ibérica S.L.
Spain
phone +34 (0) 914 7997 34
info@weicon.es

WEICON Italia S.r.l.
Italy
phone +39 (0) 010 2924 871
info@weicon.it

WEICON SA (Pty) Ltd
South Africa
phone +27 (0) 21 709 0088
info@weicon.co.za

WEICON Kimya Sanayi Tic. Ltd. Şti.
Turkey
phone +90 (0) 212 465 33 65
info@weicon.com.tr