Elastic adhesives and sealants
MS-Polymers

WEICON Natural Stone Adhesive



fast | strong adhesion | for indoor & outdoor use

WEICON Natural Stone Adhesive is a strong adhesive for fixing natural stone, stone and ceramics. Thanks to its very high initial adhesion and rapid build-up of adhesive strength, bonding is even possible on vertical surfaces such as walls. The stone adhesive is suitable for many indoor and outdoor applications. It is frost-proof, has a high temperature resistance of -40°C to +90°C as well as high weather and UV resistance. The Natural Stone Adhesive hardens quickly and has a very high final strength. After curing, the adhesive can be sanded and remains elastic to compensate for movements. The stone adhesive is silicone-free, isocyanate-free, halogen-free and solvent-free.

It can be used in a wide variety of applications, e.g. for bonding window sills, tiles, skirting boards, decorative mouldings or stair treads. WEICON Natural Stone Adhesive adheres very well to a wide variety of materials, such as wood, wood-based materials, plastics, metals, glass and mineral substrates. It is available in grey and white.

Characteristics

Base		1C MS-polymer
Texture		pasty
Cure type		moisture-curing
Can be painted after		only "wet on wet" within 3 h at the latest
Stability/run-off	ASTM D 2202	1.0 mm
Building material class	DIN 4102	B 2
Minimum shelf life	at room temperature	18 mon.

Processing

Curing condition		from +5°C to +40°C and 30% to 95% rel. air humidity
Curing speed	in the first 24 h	2 -3 mm
Density		1,62 g/cm³
Max. sealing joint width		30 mm
Gap bridging up to max.		10 mm

Curing

Skin-over time		10 min.

Mechanical properties after curing

Tensile strength	ISO 37	1,9 N/mm²
Elongation at break (tensile)	DIN 53504/ASTM D412	600 %
Tear resistance	DIN 53515 / ASTM D 1002	13 kN/m
Hardness (Shore A)	DIN ISO 7619	50±5
Shear strength according to DIN EN 1465		
Medium lap shear strength (DIN EN 1465/ ASTM D 1002)		1,5 N/mm²
Volume change	DIN 52451	-2 %

Thermal parameters

Temperature resistance		-40 °C to +90 °C

Approvals / Guidelines

MIL-Spec	complies with	-

Surface pretreatment

The surfaces must be clean and free of grease. Many surface contaminants, such as oil, grease, dust and dirt, can be removed with WEICON Surface Cleaner. For heavily soiled metal surfaces, we recommend the use of WEICON Cleaner Spray S.

WEICON Sealant and Adhesive Remover is suitable for removing old paint residues or adhesive residues. Most materials can be bonded to each other. For certain materials or special requirements, we recommend the use of a bonding agent (primer) or of WEICON Activating Cleaner. Mechanical surface pre-treatment, e.g. by grinding or sandblasting, can also significantly improve adhesion.

Application

Application methods

Hand-operated caulking gun for 310 ml cartridges, pneumatic caulking gun (we recommend only a piston-rod version, such as the WEICON pneumatic cartridge gun), automatic dispensing systems.

Joining the parts

To ensure optimal adhesion, the parts must be joined before the adhesive begins to skin over (skin formation time).

Storage

Store in the unopened original container at room temperature. Avoid sources of heat and direct sunlight.

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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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

10025241	V-Joint Nozzle, 1 PCE
10059792	Pressure gun Airflow 3, 1 PCE
10020751	Cartridge Gun Special, 1 PCE
10000441	Cartridge Gun, 1 PCE
10024313	Surface Cleaner, 400 ml, transparent
10000147	Cleaner Spray S, 500 ml, transparent
10062859	Activating Cleaner, 400 ml, transparent
10101992	Clip Nozzle Green Tube, 1 PCE, transparent

Available sizes

10105018	WEICON Natural Stone Adhesive, 280 ml (Green Tube), grey
10105025	WEICON Natural Stone Adhesive, 280 ml (Green Tube), white
10105016	WEICON Natural Stone Adhesive, 280 ml (plastic bag), grey
10105023	WEICON Natural Stone Adhesive, 280 ml (plastic bag), white
10105021	WEICON Natural Stone Adhesive, 280 ml (Set), grey
10105028	WEICON Natural Stone Adhesive, 280 ml (Set), white

Conversion table

(°C x 1.8) + 32 = °F	Nm x 8.851 = lb·in
mm/25.4 = inch	Nm x 0.738 = lb·ft
µm/25.4 = mil	Nm x 141.62 = oz·in
N x 0.225 = lb	mPa·s = cP
N/mm^2 x 145 = psi	N/cm x 0.571 = lb/in
MPa x 145 = psi	kV/mm x 25.4 = V/mil

To the product detail page:

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