

Pipe Repair-Kit

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Set for the emergency repair of defective and damaged pipes and pipelines | drinking water approval

The set is ideal for the emergency repair of defective and damaged pipes and pipelines. It comprises one WEICON Repair Stick Multi-Purpose, a special repair tape made of fibreglass-reinforced plastic, assembly instructions and one pair of protective gloves.

The repair tape is soaked with a special resin and is activated by contact with water.

The Pipe Repair-Kit can be processed without additional tools and provides reliable long-term sealing of cracks and leaks. It is very easy and fast to apply and shows excellent adhesive properties, high resistance to pressure and chemicals as well as high temperature resistance up to 150 °C. Within 30 minutes, the tape is fully cured and hard-wearing.

Due to the fabric properties of the tape, the resulting high flexibility, and the easy application, the Repair-Kit is especially suitable for use on pipe bends, T-pieces, or areas difficult to reach.

It can be used on many different surfaces, such as stainless steel, aluminium, copper, PVC, many plastics, fibreglass, concrete, ceramic and rubber.

Technical data Tape

Basis	polyurethane	
Pot life	20°C	3-5 min.
Handling strength	(35 % strength)	7-10 min.
Final strength	(100 % strength)	30 min.
Tensile strength		35 MPa
Compressive strength		30 bar
Shore hardness D	ASTM D 1706	70
Temperature resistance		up to +150 °C

Technical data Stick

Basis	epoxy resin	
Texture	modelling compound	
Filler	mineral	
Processing temperature	+15 °C up to +40 °C	
Component temperature	>3 °C above dew point	
relative air humidity	< 85 %	
Mixing ratio by volume	1:1	
Density of the mixture	1,9 g/cm³	
max. gap bridging	15 mm	
Pot life	20 °C, 10 g batch	~ 4 min.
Working strength	(80 % strength)	60 min.
Final strength	(100 % strength)	24 h
Shrinkage	<1,0 %	
Compressive strength	DIN EN ISO 604	55 MPa
Hardness (Shore D)	DIN ISO 7619	80±3
Adhesive strength	DIN EN ISO 4624	8 MPa
Temperature resistance	-50 °C to + 120 °C up to +150 °C	
Thermal conductivity	DIN EN ISO 22007-4	0,4 W/m·K
Resistance	DIN EN 62631-3-1	~ 5·10 ¹¹ Ω·m
1071_Durchschlagfestigkeit_Stick	3,0 kV/mm	
magnetic	no	

Technical data Urea

Minimum shelf life	at room temperature	24 mon.
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Approvals / Guidelines

NSF	NSF/ANSI Standard 61
IMPA Code	812431

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.

Surface Pre-Treatment

The successful application of the WEICON Pipe Repair-Kit depends on the thorough surface pre-treatment. Dust, dirt, oil, grease, residues, rust, moisture or wetness have a negative impact on the adhesion. Best results are achieved on clean, solid and roughened surfaces.

The surfaces must be clean, dry and free of grease (metallically clean). Nearly all kinds of surface soiling, like old paint, oil, grease, dust and dirt, can be removed with WEICON Surface Cleaner or WEICON Sealant and Adhesive Remover. For heavily soiled or smooth surfaces, adhesion can be optimised by surface sanding with coarse abrasives.

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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Application

1. Surface pre-treatment
 - no pressure in the pipe
 - remove any rust and roughen the surface
2. Application of WEICON Repair Stick
 - cut to size, knead
 - seal the leak
3. Application of WEICON Pipe Repair-Tape
 - immerse Repair Tape in clean water
 - wrap Repair Tape around the leak

Storage

Store at room temperature in a dry place. Unopened containers can be stored at temperatures from +18 °C to +25 °C. Protect from direct sunlight.

Conversion table

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

Available sizes

10055737	Pipe Repair-Kit, 1,5 m x 5 cm, vintage white
10055738	Pipe Repair-Kit, 3,5 m x 5 cm, vintage white
10055740	Pipe Repair-Kit, 3,5 m x 10 cm, vintage white
10057026	Pipe Repair-Kit, 10 m x 12,5 cm, vintage white



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Chemical resistance of WEICON Plastic Metals after curing* (Excerpt)

Exhaust fumes	+	Petrol (92-100 octane)	+
Acetone	o	Diesel fuels	+
Ethyl ether	+	Ethanol <85 % (ethyl alcohol)	+
Ethyl alcohol	o	Hydraulic oil	+
Ethylbenzene	-	Methyl ethyl ketone (MEK)	+
Alkalis (alkaline substances)	+	Mineral oil	+
Formic acid >10 % (methanoic acid)	-	Crude oil	+
Ammonia anhydrous 25%	+	Sulphuric acid <5%	+
Amyl acetate	+	Toluene	+
Amyl alcohol	+	Varsol	+

+ = resistant 0 = for a limited time - = not resistant *The storage of all WEICON Plastic Metal types was carried out at +20°C chemical temperature.

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