Epoxy Resin Systems

Pipe Repair-Kit

Pipe Repair-Kit



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 appliaction, the Repair-Kit is especially suitabel 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.
Material thickness before curing		0,594 mm
Material thickness after curing		1,147 mm
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/cm^3
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.

Approvals / Guidelines

NSF		NSF/ANSI Standard 61
IMPA Code		812431
MIL-Spec	complies with	-

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 pretreatment

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 soilings, like old paint, oil, grease, dust and dirt, can be removed with WEICON Surface Cleaner or WEICON Sealant and Adhesive

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Remover. For heavily soiled or smooth surfaces, adhesion can be optimised by surface sanding with coarse abrasives.

Application

1. Surface pre-treatment

- no pressure in the pipe

- remove any rust and roughen the surface

2. Application of WEICON Repair Stick

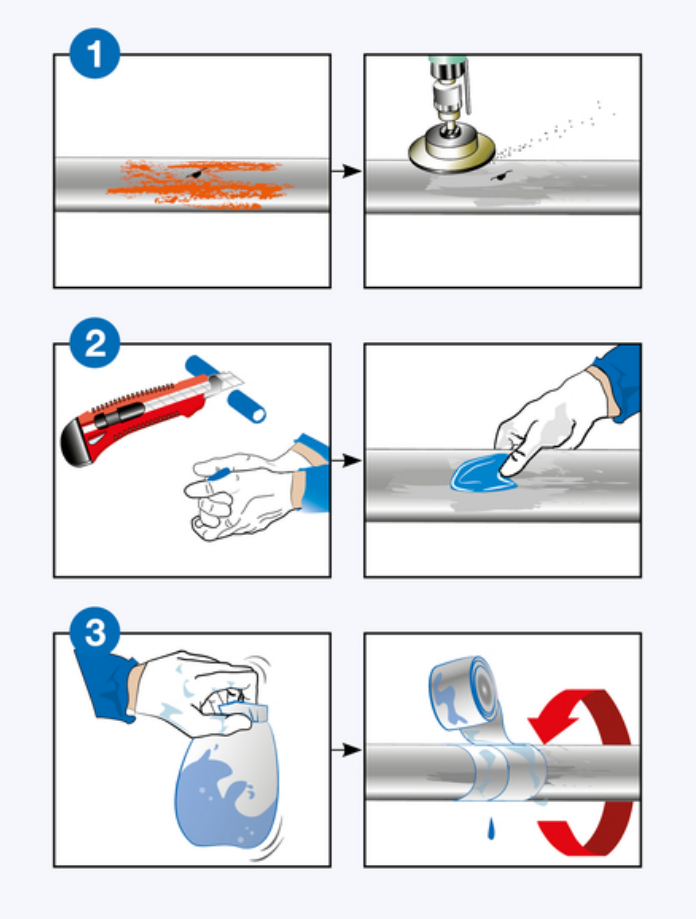
- cut to size, knead

- 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

(°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

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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To the product detail page:

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Chemical resistance after curing* (Excerpt)

1,4-Dioxane	-	Glycol	+
Exhaust fumes	+	Uric acid	-
Adipic acid	-	Impregnating oils	+
Diethyl ether	+	Iodides (K, Na etc.)	-
aliphatic hydrocarbons	+	Potassium carbonate	+
Formic acid >10 % (methanoic acid)	-	Potassium hydroxide 0-20 % (caustic potash)	+
Ammonia anhydrous 25%	-	Milk of lime	+
Aniline	-	Phenol	-
aromatic hydrocarbons	+	Cresol	-
Barium hydroxide	+	Magnesium hydroxide	+
Benzoic acid	-	Maleic acid (cis-ethylenedicarboxylic acid)	-
Benzyl alcohol	-	Methanol (methyl alcohol) <85 %	o
Benzyl chloride	-	Methylene chloride	-
Boric acid	-	Mineral oil	+
Bromides	-	Naphthalene	+
Butadiene (1,3-)	-	Sodium bicarbonate (sodium hydrogen carbonate)	+
Butyric acid	-	Sodium carbonate (soda)	+
Butyl acetate	o	Sodium chloride (table salt)	+
Butyl alcohol	o	Nitrates	-
Calcium hydroxide (slaked lime)	+	Oxalic acid <25 % (ethanedioic acid)	o
Chloroanilines	-	Perchloraethylene	-
Chloroform (trichlormethane)	-	Kerosene	+
Chlorosulphuric acid (wet and dry)	-	Oils, vegetable and animal	+
Chlorosilanes	-	Phosphoric acid <50%	+
Chlorinated water (swimming pool concentration)	-	Phthalic acid, phthalic anhydride	-
Chromates (K, Na, etc.)	-	Nitric acid <5%	-
Chromic acid	-	Sulphur dioxide (wet and dry)	-
Cyanides (K, Na etc.)	-	Carbon disulphide	-
Cyclohexanone	-	Sulphuric acid <5%	+
Mineral oil and mineral oil products	+	Soap solution	+
Acetic acid diluted <5%	o	Turpentine	+
Ethanol <85 % (ethyl alcohol)	o	Carbon tetrachloride (tetrachloromethane)	-
Greases, oils and waxes	+	Tetralin (tetrahydronaphthalene)	-
Hydrofluoric acid	-	Trichloraethylene	-
Tannic acid diluted <7%	o	Hydrogen peroxide <30 % (hydrogen superoxide)	o
Glycerin (trihydroxipropane)	+		

+ = 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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