

# WEICON Pool Repair-Kit



**cures reliably even under water | application on wet surfaces | excellent adhesion**

The WEICON Pool Repair-Kit is especially suitable for quick repair work under water. Its excellent adhesive strength enables application on wet surfaces. Thanks to the rapid curing process, it is perfect for repair work on tiles, mosaic tiles, etc.

## Characteristics

Base	Epoxy
Filler	mineral
Texture	pasty
Colour	white
Minimum shelf life	at room temperature 36 mon.

## Processing

Processing temperature	+15 °C (+59 °F) to +40 °C (+104 °F)
Component temperature	>3 °C above dew point
Mixing ratio by weight	100:83
Mixing ratio by volume	100:95
Viscosity of the mixture	at +25 °C 550.000 mPa·s
Density of the mixture	1,5 g/cm <sup>3</sup>
Consumption	Layer thickness 1.0 mm 1,5 kg/m <sup>2</sup>
Max. layer thickness	per step 10 mm

## Curing

Pot life	at 20 °C, 500 g batch	30 min.
Additional layer after	(35 % strength)	7 h
Working strength after	(80 % strength)	12 h
Final strength	(100 % strength)	36 h
Shrinkage		0,12 %

## Mechanical properties after curing

- Measured after curing at		24 h RT + 4 h +60 °C
Tensile strength	DIN EN ISO 527-2	31 MPa
Elongation at break (tensile)	DIN EN ISO 527-2	9,0 %
Hardness (Shore D)	DIN ISO 7619	75±3

## Thermal parameters

Temperature resistance	-35 °C (-4 °F) to + 160 °C (+248 °F)
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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](http://www.weicon.com)) must be observed.

## Surface Pre-Treatment

The successful application of WEICON Pool Repair-Kit depends on the careful preparation of the surfaces. This is the most important factor for ensuring overall success. Deposits of all kinds, algae and green stains, dust, dirt and rust negatively affect adhesion. The following points must therefore be observed before using WEICON Pool Repair-Kit:

The areas to be bonded or repaired must be free of any dirt, dust, rust, oxides, paint and other impurities or residues.

Smooth and very heavily soiled surfaces should additionally be treated mechanically, e.g. by sanding or brushing (Bristle Blaster).

After any mechanical pre-treatment, the surface should be thoroughly cleaned of dust using a vacuum cleaner and brush, for example. Protect the surface from further contamination until the coating is applied.

After preparing the surface, WEICON Pool Repair-Kit should be applied as soon as possible (within one hour).

## Mixing

First, stir the resin. Then thoroughly mix the resin and hardener together for at least four minutes at 20°C (68°F) until there are no more bubbles. The included processing spatula can be used for this purpose. The components should be stirred until a homogeneous mixture is achieved.

The mixing ratio of the two components must be strictly observed, as otherwise strongly deviating physical values will result (max. deviation +/- 2 %).

Only prepare a batch as large as can be processed within the pot life of 30 minutes. The specified pot life refers to a material batch of 500 g and 20°C (68°F) material temperature. Mixing larger quantities or higher processing temperatures will result in faster curing due to the typical reaction heat of epoxy resins.

## Application

We recommend an ambient temperature of 20 °C for application. For a thin pre-coat and to achieve maximum adhesion, use the Processing Spatula to work the WEICON Pool Repair-Kit thoroughly into the surface in crosswise layers. By means of this technique, the epoxy resin penetrates well

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into all cracks and roughness depths. Afterwards, further applications can be carried out straight away, until the desired layer thickness is reached. Make sure that the epoxy resin is applied evenly and without air bubbles. If WEICON Pool Repair-Kit is to be used as a coating, it is recommended to smooth the surface using a PE film and a rubber roller.

### Curing

Final hardness is reached after 36 hours at 20 °C (68 °F) at the latest. At lower temperatures, curing can be accelerated by evenly applying heat up to max. 40 °C (104 °F). Higher temperatures shorten the curing time. The following rule of thumb applies: each increase by +10 °C (50 °F) above room temperature (20 °C/68 °F) will decrease the curing time by half. Temperatures below 16°C (61°F) increase the curing time, until at approx. 5°C (41°C) and below, almost no reaction will take place at all.

### Storage

WEICON Epoxy Resin Systems should be stored in a dry place at room temperature. Unopened containers can be stored at temperatures from +18 °C to +28 °C. Opened containers must be used up within 6 months.

### Scope of delivery

Processing Spatula | Gloves | Instructions for use

### Accessories

10024313 Surface Cleaner, 400 ml, transparent  
10022562 Processing Spatula long, 1 PCE

### Recommended equipment

Smoothing trowel, spatula Lint-free cloth  
PE film 0.2 mm Industrial vacuum cleaner  
Rubber roller

### 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

10102149 WEICON Pool Repair-Kit, 0,2 kg, white  
10102879 WEICON Pool Repair-Kit, 2 kg, white  
10102886 WEICON Pool Repair-Kit, 0,5 kg, white

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	+
aliphatic hydrocarbons	+	Iodides (K, Na etc.)	-
Formic acid >10 % (methanoic acid)	-	Potassium carbonate	+
Ammonia anhydrous 25%	-	Potassium hydroxide 0-20 % (caustic potash)	+
Aniline	-	Milk of lime	+
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)	+	Nitrobenzene	-
Chloroanilines	-	Oils, vegetable and animal	+
Chloroform (trichlormethane)	-	Oxalic acid <25 % (ethanedioic acid)	o
Chlorosulphuric acid (wet and dry)	-	Perchloraethylene	-
Chlorosilanes	-	Kerosene	+
Chlorinated water (swimming pool concentration)	-	Phenol	-
Chromates (K, Na, etc.)	-	Phosphoric acid <50%	+
Chromic acid	-	Phthalic acid, phthalic anhydride	-
Cyanides (K, Na etc.)	-	Nitric acid <5%	-
Cyclohexanone	-	Sulphur dioxide (wet and dry)	-
Diethyl ether	+	Carbon disulphide	-
Mineral oil and mineral oil products	+	Sulphuric acid <5%	+
Acetic acid diluted <5%	o	Soap solution	+
Ethanol <85 % (ethyl alcohol)	o	Turpentine	+
Greases, oils and waxes	+	Carbon tetrachloride (tetrachloromethane)	-
Hydrofluoric acid	-	Tetralin (tetrahydronaphthalene)	-
Tannic acid diluted <7%	o	Trichloraethylene	-
Glycerin (trihydroxipropane)	+	Hydrogen peroxide <30 % (hydrogen superoxide)	o

+ = 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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