



Technical Data Sheet

ASODUR®-K900

Casting and adhesive resin

Art.-No. 2 05070

ASODUR-K900 is a two-component low viscosity, solvent free epoxy resin with an exceptional bond to concrete, screed, stone etc.

- very good penetration
- high adhesion strength
- rapid hardening
- resistant to chemicals
- water and frost resistant

Areas of application:

- For producing tight secure bonds between joints and cracks in screeds and concrete
- For sealing hollow areas in bonded screeds
- For repairing stone, concrete and similar
- Suitable for underfloor heating

Technical Data:

Binder:	two component epoxy resin
Colour:	transparent yellowish
Viscosity:	approx. 360 ± 50mPa s at +23 °C
Mixing ratio:	100:50 parts by weight
Density:	1.10 g/cm ³
Minimum cure temp:	+8 °C
Application time:	approx. 12 minutes
Overcoat after:	approx. 4 hours at +23 °C
Through cured after:	approx. 7 days at +23 °C
Packaging:	<ul style="list-style-type: none">• 1 kg in pack with three sections, including 20 screed clips and 1 pair of disposable gloves in a box with 5 x 1 kg and 1 m plastic tubing• 0.5 kg in pack with three sections, including 10 screed clips and 1 pair of disposable gloves in a box with 5 x 0.5 kg and 1 m plastic tubing

Cleaning:	Thoroughly clean tools immediately after use with ASO-R001.
Storage:	18 months in the original unopened packaging under cool, dry conditions above +10 °C.

Surface preparation:

The area to be treated must be:

- dry, firm, sound and have a good grip
- free from separating and adhesion inhibiting substances such as dust, laitance, grease, paint residues and similar
- protected from moisture ingress from the rear.

Use suitable means to prepare the substrate dependent on its condition such as e.g. planing, brushing, sweeping, vacuuming.

In addition the following minimum substrate criteria are to be fulfilled:

Cement-based surfaces:

- Concrete quality: min. C20/25
- Screed quality: min. EN 13813 CT-C25-F4
- Age: min. 28 days
- Tensile adhesion strength: 1.5 N/mm²
- Residual moisture: < 4% (carbide hygrometer method)

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Product preparation:

Components A (resin) and B (hardener) are delivered in a predetermined mixing ratio in a two compartment container. Pull out the separating clamp to allow both components to run together. Mix the bag contents by kneading and tumbling. Ensure that the mix is homogenous (free from striations); mixing time approx. 3 minutes. The minimum temperature during mixing should be +15 °C. Once mixed untwist the threaded closure on the top of the bag and squeeze out the mixture.

Methods of application / consumption:

1. Sealing cracks in screed and concrete using screed clips:

Open up the crack or joint with a cutting disc along its length to 1/2 to 2/3 the screed thickness. Cut approx. 10 cm long cuts across the crack at right angles approx. every 30 cm. Thoroughly remove dust from the cut area using an industrial vacuum cleaner. Pour the premixed casting resin into the cut joints until visibly saturated. It is possible that a second pour will be necessary. Place the screed clips supplied in the crosscuts and wipe off expelled resin from the surface. Then blind the wet resin surface with quartz sand of particle size 0.2 to 0.7 mm.

Once hardened vacuum away all non-bound, loose sand. After 4 - 5 hours the hardened casting resin can be abraded. For abrasion 60 grade grit paper is suitable. Afterwards thoroughly de-dust the surface.

2. Levelling out irregularities:

For levelling irregularities produce a smoothing compound with ASODUR-K900 as the binder as follows:

ASODUR-K900: 1.0 part by weight
Quartz sand: approx. 1.0 part by weight (particle size 0.1 - 0.4 or 0.2 - 0.7 mm)

Note: Ensure that the liquid and solid components are evenly blended.

Firstly prime the background with ASODUR-K900.

Consumption: approx. 300 - 500 g/m².

The mixed smoothing compound is then trowel applied in a single operation. Immediately afterwards broadcast the smoothing compound, whilst it is still wet, with fine quartz sand of particle size 0.1 - 0.4 mm or 0.2 - 0.7 mm.

Consumption of finished smoothing compound: approx. 1,600 g/m²/mm.

3. Repair of small areas with extensive and deep damage:

For repairing large damaged holes produce a mortar using the binder ASODUR-K900 as follows:

Production of the epoxy mortar:

Thickness: approx. 3 to 15 mm
ASODUR-K900: 1.0 part by weight
Quartz sand: 7.5 - 10.0 parts by weight, particle size 0 - 1.5 mm Ø

Place the determined quantity of quartz sand into a large mixing container. Subsequently add the pre-mixed resin and hardener components. Ensure that the liquid and solid constituents are evenly blended.

Firstly prime the substrate with ASODUR-K900.

Consumption: approx. 300 - 500 g/m².

Apply the mixed mortar onto the freshly primed surface to a minimum thickness of 5mm, mechanically tamp and smooth off. Immediately afterwards broadcast the mortar, whilst it is still wet, with fine quartz sand of particle size 0.1 - 0.4 mm or 0.2 - 0.7 mm.

Mortar consumption: approx. 2.0 kg/m²/mm.

4. Filling of voids

In order to fill voids, the area where pouring is to take place needs to be made accessible by opening up and/or drilling. After the preparatory measures have been implemented thoroughly clean and remove dust. Afterwards pour the mixed casting resin into the void in stages. It is possible that a second pour will be necessary.

Consumption: approx. 1.10 kg per volume.

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Health & Safety:

Once cured, ASODUR-K900 is harmless.
The hardener (component B) is corrosive.
We draw your attention to current advice/brochures
"Epoxy resins and hardeners" distributed by
PlasticsEurope www.plasticseurope.org.

Further information:

BGR 190 - Regulations for the use of breathing
apparatus
BGR 192 - Regulations for the use of eye and face
protection
BGI 868 - Protective gloves for chemicals
Follow the advice on the packaging.

Important advice:

- Only fill screed crack and shrinkage control joints
once the screed has reached the accepted moisture
level and is ready to receive finishes.
- Higher temperatures shorten the pot life and curing
time. Lower temperatures increase the pot life and
curing time. Material consumption is also increased at
lower temperatures.

- The bond between the individual coats can be
heavily impeded through the influence of dampness or
contamination between the applied coats.
- When longer waiting times occur between the
application of coats the surface must be well cleaned
and abraded, after which a completely new and even
application of the adhesive/casting resin should be
carried out.
- After application the resin must be protected from
damp (e.g. rain, melt water). Dampness produces a
white discolouration and/or stickiness on the surface
and can impede the cure. Discoloured and/or sticky
surfaces should be taken off e.g. by abrading and
renewed.
- Applications that are not clearly explained in this
technical data sheet may only be carried out after
consultation with and written confirmation from the
Technical Services Department of SCHOMBURG.
- Waste disposal key:
Liquid residues: EAK 08 01 11 paint and lacquer
waste that contains organic solvents or other
dangerous substances.
Hardened residues: EAK 17 02 03 plastics

Please observe a valid EU safety data sheet!

GISCODE: RE 1