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Technical Data Sheet

ASOFLEX-AKB-floor ASOFLEX-AKB-wall INDUFLEX-VK6085 Waterproofing beneath tile and slab finishes

Art.-No. 2 03554

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- solvent free, pigmented two component polyurethane resin
- elastic with good crack-bridging properties
- good resistance to chemicals and brine
- tested to EN 14891, class RM 01 P
- high levels of protection against carbonation
- impervious to chloride ions
- self cross-linking
- available in two colours
- VOC free, tested in accordance with AgBB

Areas of application:

ASOFLEX-AKB-floor/ASOFLEX-AKB-wall are components of the bonded waterproofing system DENSARE 2002. They are used as system components in accordance with the test principles for liquid applied waterproofing materials in combination with tiled finishes for the following areas of application/wet duty classification:

- A: Heavy duty from service water and cleaning water to walls (A1) and floors (A2) in wet areas such as swimming pool surrounds and communal showers.
- B: Wall and floor surfaces in swimming pool tanks in interiors and exteriors.
- C: Wall and floor surfaces in industrial areas also where there is chemical exposure. Exceptions being areas associated with materials hazardous to water in terms of LAU areas of the German WHG (water resources act).

Technical Data:

Cleaning of

working tools: Tools must be thoroughly cleaned

immediately after use with ASO-ROO1

Packaging: ASOFLEX-AKB-floor:

5- and 10-kg containers ASOFLEX-AKB-wall: 2.5- and 5-kg containers

Components A and B are delivered at a

predetermined mixing ratio.

Storage: 6 months when stored dry and frost free

in the original unopened containers. For longer storage periods the efficiency of reaction can dwindle. Storage should follow in accordance with the regulations

for storing materials hazardous to

watercourses.

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ASOFLEX-AKB-1100r ASOFLEX-AKB-wall

	ASOFLEX-AKB-floor	ASOFLEX-AKB-wall
Basis:	2 comp. polyurethane resin	2 comp. polyurethane resin
Colours:	Blue approx. RAL 5013 Grey approx. RAL 7038	Blau approx. RAL 5013 Grey approx. RAL 7038
Mixed density:	approx. 1.37 g/cm³	approx. 1.32 g/cm³
Mixing ratio:	100 : 24 parts by weight	100 : 23 parts by weight
Foot traffic after:	approx. 16 hrs	approx. 16 hrs
Pot life:	approx. 25 mins	approx. 30-40 mins
Overcoat after:	after approx. 16 hrs, max. 72 hrs	after approx. 16 hrs, max. 72 hrs
Mechanical load/chemical exposure:	after approx. 7 days	after approx. 7 days
Tensile adhesion strength:	approx. 1.1 N/mm²	approx. 1.1 N/mm²
Crack bridging:	0.40 mm (EN 1062-7); 1.40 mm (EN 14891)	0.40 mm (EN 1062-7); 1.40 mm (EN 14891)
Shore A hardness:	90	85
Water impermeability:	3 bar	3 bar
Reaction to fire:	B 2	B 2

All values quoted relate to +23 °C

Substrate preparation:

The area to be treated must be

- dry, solid, load bearing and have a good key
- free from separating and adhesion inhibiting substances such as dust, laitance, grease, rubber marks, paint residues etc.
- protected against moisture penetration from the rear. Dependent on its condition the following suitable methods can be used to prepare the substrate to be treated; sweeping, vacuuming, brushing, planing, scabbling, sand blasting, high pressure water jetting, shot blasting.

The following criteria also need to be fulfilled dependant on the particular substrate:

Cement-based surfaces:

min. C20/25 · Concrete quality: · Age: min. 3 months · Tensile adhesion

 $\geq 1.5 \text{ N/mm}^2$ strength:

· Residual moisture: ≤ 4% (carbide hygrometer method)

min. CT- C25 - F4 · Screed quality: · Age: min. 28 days

· Tensile adhesion

strength: $\geq 1.0 \text{ N/mm}^2$

of bonded screed: Residual moisture

< 4% (carbide hygrometer method)

of screed on

Residual moisture

separating layer: ≤ 2% (carbide hygrometer method) For substrates that are installed over Note:

a separating layer, the residual moisture is to be determined over the whole cross section of the

substrate.

· Render quality: P IIIa / P IIIb

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ASOFLEX-AKB-Moor ASOFLEX-AKB-wall

· Age: min. 28 days

· Tensile adhesion

strength: $\geq 0.8 \text{ N/mm}^2 \text{ (Pre-blended mortar)}$

· Residual moisture: ≤ 4% (carbide hygrometer method)

The quality of the concrete in swimming pool tanks must conform to the local guidelines (e.g. DIN 1045). Keep to a waiting time of minimum 3 months for concrete swimming pool tanks before waterproofing.

Advice: Containers that are to be clad in a rigid material (e.g. tiles) after waterproofing must be subjected to the expected loading before waterproofing or laying the tiles; a pool tank test is to be carried out. Substantiation: Deformation that appears later can have a negative effect upon the tiled finish.

Product preparation:

Components A and B are delivered at a predetermined mixing ratio. During the mixing process the material temperature should be +15 °C. Thoroughly stir component A (resin) before mixing. Tip component B into the mixed component A. Ensure that the hardener completely drains from its container. Blend both components together using a suitable mixer at approx. 300 rpm (e.g. drill with mixing paddle). It is important also to stir from the sides and the bottom so that the hardener is evenly dispersed. Mix until the mixture is homogenous (free from streaks): mix time approx. 3 minutes. Do not use the mixed material directly from the packaging. Pour the mix into a clean vessel and stir through once again thoroughly.

Method of application / consumption:

Priming:

Apply two coats of ASODUR-GBM wet in wet to close the surface pores. (see technical data sheet for ASODUR-GBM).

Consumption: approx. 500 g/m²

Broadcast quartz sand (0.1 - 0.6 mm) into the wet primer.

Consumption: approx. $800 - 1,000 \text{ g/m}^2$.

Advice: Broadcasting should blind the surface but not be excessively applied to avoid penetrating the primer.

Job requirements: (levelling compound)

Composition/production of the levelling compound:

ASODUR-GBM 1.0 part by weight

Quartz sand

(0.1 - 0.6 mm) 1.0 part by weight approx. 1.5 - 2.0 %

(for floor areas) 2.0 - 3.0 % (for wall areas)

(Advice: addition rates are temperature dependant) **Waterproofing:** (after a minimum waiting time of 16 hours up to a maximum of 72 hours).

The waterproofing is carried out in alternating colours. The waterproofing of the connections with the floor inlets or pipe penetrations is carried out before the main area with ASOFLEX-AKB-wall.

For the purpose of stress alleviation metal or plastic (PVC or ABS) waterproofing flanges are waterproofed using e.g. ASO-Joint-Tape-2000-S or ASO-Joint-Sleeve with ASOFLEX-AKB-wall.

Consumption: approx. 500 g/m²

Plastic waterproofing flanges (PVC or ABS) or stainless steel:

Prepare plastic waterproofing flanges (PVC or ABS) by degreasing and abrading.

Bonding primer:

Apply one coat of INDU-Promer-N with a brush and using a cloth spread thinly and evenly.

Consumption: approx. 40 g/m²

Wall and floor junctions:

In these areas lay ASO-Joint-Tape-2000-S with ASOFLEX-AKB-wall onto the broadcast primer and embed, then cover completely with the waterproof coating. Also bond overlapped areas with this product. After a waiting time of min. 16 to max. 72 hours, overcoat the bedded ASO-Joint-Tape-2000-S with

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ASOFLEX-AKB-Moor ASOFLEX-AKB-wall

ASOFLEX-AKB-Wall whilst coating the vertical and horizontal areas. Leave the expansion joint area free e.g. by applying an adhesive strip. Structural joints and movement joints are bedded in the same way whereby the joint tape is laid in the joint profile in a loop. When waterproofing crossovers or ends, use the pre-formed pieces, ASO-Joint-Tape-2000-cross or ASO-Joint-Tape-2000-T-piece.

Important advice:

- The bond between successive coats can be impeded through the influence of moisture or contamination between the applied coats.
- The substrate temperature and that of the individual system components must be +3 °C above the prevailing dew point temperature.

- When longer waiting times occur between successive layers or where the surface already prepared with the synthetic liquid resin needs to be renewed after a long time period, the existing surface must be thoroughly cleaned and abraded, after which a completely new pore-free sealing is to be undertaken. It is not sufficient simply to overcoat.
- Surface protection systems must be protected from damp after application. Dampness can lead to breakdown of the curing process.
- Discoloured and/or sticky surfaces must be removed,
 e.g. by abrasion or blasting, and renewed.

Please observe a valid EU safety data sheet. **GISCODE: PU40**



Table:

Vertical surfaces
 a. Priming coat: ASOFLEX-AKB-Wall, Colour: blue, apply by trowel using a suitable tool in one layer avoiding forming pinholes. Consumption: min. 1500 g/m²
b. Broadcast coat: (after a waiting time of min 16 hours to a max 72 hours) ASOFLEX-AKB-wall: colour grey is applied in one coat by trowel. Consumption: approx. 300 - 500 g/m²
c. Broadcasting: Evenly cover the coating with quartz sand (grain size: 0.1 - 0.6 mm). Consumption: approx. 800-1000 g/m² Advice: Broadcasting should be carried out with an air spray gun and may not be excessive in order to avoid bridging through.

Advice: Use the reaction resin adhesives and grouts ASODUR-EK98-floor and ASODUR-EK98-wall for bonding and grouting ceramic tiles (see technical data sheet).

only the latest German technical data sheet or the latest data sheet from one of our foreign subsidiaries inside their sales territory

This technical data sheet is a translation from German and does not consider local building codes or legal requirements. It shall be used as general reference for the product. Legally binding is

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