

INDUFLOOR®-ST1100

SPECIAL PRIMER

Product Description:

- Two component, low solvent, moisture tolerant epoxy resin.
- Water vapour impermeable.
- Due to its high density, INDUFLOOR®ST 1100 displaces the water from the surface capillaries of concrete substrates and acts as a barrier to oil rising through capillary action.
- Forms a very good bond to damp concrete substrates. Prevents penetration of radon.

Primary Uses:

- As a special priming treatment for oil-contaminated but previously cleaned concrete substrates.
- As effective protection against the formation of osmosis bubbles when there is moisture penetrating from the rear.
- As a capillary breaking grout to the pool edge with high-level water tables, up to 1:1 filled with 0.1–0.6 mm quartz sand.
- As a priming treatment for concrete/bonded screeds that are still damp, which are to receive floor coverings such as PVC, linoleum, carpet, parquet, tiles etc. Please refer to the advice section.
- As a primer for SOLOPLAN® 30-PLUS.

Technical Properties:

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| Basis | : two-component epoxy resin. |
| Colour | : light grey. |
| Viscosity | : 70 s in a 4 mm DIN standard cup. |
| Mixture ratio | : 100:12 parts by weight. |
| Density | : 1.86 g/cm ³ . |
| Pot life | : approx. 60 minutes at +23°C. approx. 30 minutes at +30°C. |

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| Curing temperature (material/substrate) | : +8°C to +30°C. |
| Foot traffic After | : approx. 12 hrs. at +23°C. |
| Overcoat After | : approx. 12 - 24 hrs at +23°C. |
| Fully cured After | : approx. 7 days at +23°C. |
| Consumption | : min. 600 - 1,000 g/m ² . |
| Compressive strength | : approx. 80 N/mm ² . |
| Flexural strength | : approx. 30 N/mm ² . |
| Tensile Adhesion | : B 1.5, for other data, refer to the table on the last page. |
| Water vapour permeability | : S _D > 50 m (Class III according to EN 1504-2). |
| Cleaning tools | : Clean tools immediately after use with thinner No.17. |
| Packaging | : 2 kg, 5kg, 15 kg and 28 kg containers. Components A and B are delivered in predetermined mixing ratios. |
| Storage | : frost free, cool and dry above +10°C. 24 month in the original containers. Use opened containers promptly. |

Substrate Preparation:

Concrete and cement-based screed surfaces must be load-bearing, clean, dry or damp and free from substances that will impair adhesion. Weak or weakly bonded layers e.g., separating agents, old



adhesive/ smoothing compounds or floor finishes and paint residues must be completely removed:

In addition, INDUFLOOR®ST-1100 can also be used on the following substrates:

- Concrete slabs and cement-based screeds with moisture pressure from the rear
- Concrete slabs and cement-based screeds with high residual moisture levels *)
- Note: Residual moisture of cementitious substrates: dry or damp (to Def. RiLi SIB)*)

*) "Guidelines for the protection and restoration of concrete structural units", part 2, section 1.2.5 "concrete moisture" "dry": An approximately 2 cm deep freshly produced cut out area may not, as a result of drying, become visibly lighter. (Where doubt exists, the concrete is considered dry when it exhibits equilibrium moisture content for the climate 23/50 i.e. dependent on the concrete classification other absolute values serve for "dry"). "damp": The surface appears matt damp but may not have a shiny film of water. The pore system within the concrete substrate may not be saturated i.e. applied water droplets must be absorbed and the surface must appear matt once again after a short while.

Oil Contaminated Concrete Surfaces:

- Clean as appropriate with ASO-R008 cleaning agent.
- This is followed by cleaning the surface using high pressure water jetting (> 300 bar). Remove excess water with a suitable aqua vacuum.
- Whilst the substrate is still damp immediately brush INDUFLOOR®ST 1100 into the surface and evenly roll. Please note: A continuous film of water must not be allowed to accumulate on the concrete surface. The substrate may also not dry out – if this happens then there is a risk that there will be no bond between the special primer and the substrate due to the oil rising again. Dependent on the condition of the substrate to be treated, suitable preparation

methods should be used such as e.g. scabbling, shot blasting, planning etc. The following minimum requirements are also to be fulfilled for cement-based substrates:

Concrete quality : min. C20/25
Screed quality : min. EN 13813 CT-C25-F6

Tensile adhesion strength : > 1.5 N/mm²
Render quality : min. P IIIa / P IIIb
Tensile adhesion strength : approx. 0.8 N/mm²

Important advice: Oil-contaminated substrates are particularly problematic. We, therefore, recommend that you contact our Technical Advisory team.

Product Preparation:

Component A and component B are delivered at a predetermined mixing ratio. Top component B into component A. Ensure the hardener drains completely from its container. Mix both components with a suitable mixer at 300 rpm. It is important to ensure that the hardener is evenly dispersed. Still, until the mix is homogenous (free from streaks); mixing time approx. 3 minutes. The minimum temperature during mixing should be around +15°C. Do not use mixed material directly from the packaging. Decant the mixed material into a clean container and mix thoroughly once again.

Application Method/ Consumption:

Using a rubber squeegee, apply ASODUR-SG2 to saturation onto the cleaned, matt damp substrate and thoroughly work into the surface with a priming brush and back roll with a short nap paint roller. Blind the fresh primer with quartz sand (grain size: 0.5 – 1.0mm diameter). Once hardened, carefully remove all non-bound quartz sand before subsequent coatings are applied to the primer.

Material Consumption:

Dependent on the substrate, the consumption is between 600-1000 g/m². Consumption of broadcast sand approx. 1500 g/m². After waiting for approx. 12-24 hours an INDUFLOOR® coating system can be applied, beginning with the primer belonging to the system or alternatively other floor finishes can be applied.

Important Advice:

- When preservatives (e.g. propionic acid) are used in drive-in silo storage units, then INDUFLOOR-ST1100 cannot be used to provide a waterproof barrier.
- Higher temperatures reduce pot life. Lower temperatures increase the pot life and setting time. Material consumption is also increased at lower temperatures.
- Surface protective systems must be protected from approx. 4-6 hours from dampness after application (e.g., rain, meltwater). 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 renewing.
- High temperatures, direct sunlight and draughts may lead to the formation of skin and impair the necessary bond to broadcast sand as well as substrate penetration.
- When using INDUFLOOR®-ST1100 as a fluid capillary grout, broadcast the surface of the curing resin with 0.5-1.0 mm quartz sand.
- When using INDUFLOOR®-ST1100 as a vapour barrier beneath conventional floor finishes such as e.g., PVC, linoleum, carpet and parquet, solven based adhesives may not be used. This leads to blistering of the installed floor covering.
- Use INDUFLOOR®-ST1100 Thix for verticle surfaces.
- Protect areas not being treated with INDUFLOOR®-ST1100 from its effects.

- Applications that are not clearly explained in the technical data sheet may only be carried out after consultation with the written confirmation from the technical services department of AQUAFIN Pakistan.
- Before starting work with the above-named products, consult the technical data sheet.

| Tensile adhesion values (EN 246324) INDUFLOOR® ST 1100 | | Tensile adhesion values (DIN 52104, pt 1) Freeze- thaw cycles INDUFLOOR® ST 1100 | |
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| Fresh concrete (after 5 days) | 0.8 N/mm ² | Fresh concrete (after 5 days) | 0.9 N/mm ² |
| Concrete 28 days (saturated) | 3.8 N/mm ² | Concrete 28 days (saturated) | 3.6 N/mm ² |
| Concrete 28 days (dry) | 4.0 N/mm ² | Concrete 28 days (dry) | 3.1 N/mm ² |
| Concrete 28 days (saturated) | 4.1 N/mm ² | Concrete 28 days (saturated) | — |
| Concrete 28 days (dry) | 5.3 N/mm ² | Concrete 28 days (dry) | 3.5 N/mm ² |

