

isolera I 101

Injection and casting resin

Product description: isolera I 101 (low emission) is a low viscosity, unfilled, non-pigmented (not coloured) 2-component injection resin with high surface gloss. The injection resin meets the latest technical standards, the formulations are free of nonylphenol and the standard version is free of benzyl alcohol. In addition, the VOC (organic solvent) content is far below the legal requirements and therefore the requirements according to the AgBB scheme are fulfilled, taking into account the DIBt guideline.

Areas of application: The areas of application are on mineral concrete and screed substrates in industrial and production halls, cellars and storage rooms, in the food industry, department stores, hospitals, etc. isolera I 101 is a universally applicable injection resin. I101 is vapour diffusion-tight and can therefore only be used on substrates with a max. residual moisture of 3 %, in case of double application with intermediate drying up to 5 % residual moisture is possible (no pressing moisture).

Subsoil quality:

Concrete:	min. C20/25 (B 25)
Screed:	min. CT 35 (ZE 30)
	Age min. 28 days
Adhesive tensile strength:	min. 1.5 N/mm ²
Residual moisture:	< 3% at any point (< 5% two-layer) measured according to CM method.

Substrate pre-treatment: The surface to be treated must be clean, dry and load-bearing. Sufficient absorbency of the substrate is a basic requirement for adhesion

The substrate must be free of oil, grease, old paint, cement slurry or other contaminants. The substrate must be freed from oil, grease, old coatings, cement slurries or other soiling by sanding, shot-blasting or milling.

Cracks and dummy joints must be widened with the grinding wheel and transverse cuts made approx. every 20 cm. Then clean the extensions with an industrial Hoover, insert the screed clamps and grout with the I 101. Attention! Make sure that no pre-filled products are used for grouting, as otherwise sufficient penetration of the resin is not guaranteed. If the I 101 is absorbed in the joints, sufficient material must be poured fresh in fresh within 30 minutes. As required and depending on the overcoating periods, the cured joints must be sanded fresh in fresh with quartz sand 0.3 - 0.8mm or 0.7-1.2mm over the entire surface. If, after curing, it is found that the I 101 has sagged in the joints, the joints must be filled again. Depending on the type of coating to follow, the filled joints must be sanded after drying.

Mixing: When adding Comp.B (hardener), work with low rotation speeds, as it is very thin. After the first mixing, the speed can be increased. Attention!

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Technical specifications:

Adhesive tensile strength DIN EN 1542	> 3,3 N/mm ²
Flexural strength DIN EN 196 -1	ca. 93,7N/mm ²
Flexural strength DIN EN ISO 178	ca. 43N/mm ²
Compressive strength DIN EN 196 -1	ca. 82,2N/mm ²
Compressive strength DIN EN ISO 604	ca. 40,3 N / mm ²
Abrasion resistance DIN EN ISO 5470 -1	ca. 245mg/1000U/H22/1kg
Impact resistance DIN EN ISO 6272	≥ 20 Nm

	Comp. A	Comp. B
Viscosity at 23°C	ca. 1100 mPas	ca. 150 mPas
Mixing ratio parts by weight	100 Wt. parts	50 Wt. parts
Mixing ratio vol. parts	100 Vol. parts	56 Vol. parts
Density at 20°C	1,12 kg/l	1,00 kg/l

Density of the mixture at 20°C	1,08 kg/l
Mixing viscosity at 23°C	ca. 400 – 500 mPas
Solids content	ca. 99,6%
Pot life at 20°C	approx. 23 minutes / 300 g batch
Pot life / processing times!	Larger preparations or higher temperatures shorten the processing times
Mixing time	2 min. depending on container size, repot and mix again for 1 min.
Processing times at 20°C	<p>The processing times are also influenced by the processing technique:</p> <ul style="list-style-type: none"> - Store the material at 15 - 25°C for approx. 24 h before processing! (warm material shortens the processing time!) - Stirring times should be observed, but excessive stirring heats up the material and shortens the processing time! - Is the batch size optimal in relation to the area to be processed? - Is it possible to empty the prepared mixture immediately? - Pouring should always be done in lanes and not in one spot. - Can plinths, edges, etc. be painted in advance with a smaller batch to prevent the main batch from remaining too long in the mixing bucket? - When processing as a sealer with a small m² of material, it is advantageous to immediately spread the mixture over several larger processing buckets.
Drying time	<p>Substantially influenced by substrate and ambient temperature approx. 8 h dust dry, approx. 16 h overcoatable, approx. 24 h lightly loadable < 500 kg, approx. 48 h trafficable < 2000 kg approx. 72 h trafficable > 2000 kg</p> <ul style="list-style-type: none"> - Fully loadable chemically / mechanically after approx. 7 days. - After a drying time of > 48 h, the surface must be sanded and alkaline cleaned before further reworking! (only if not sanded)
Storage life	approx. 12 months at 15°C to 25°C storage temperature
Colour	Comp.A: almost colourless, Comp.B: amber-like
Cleaner for the tools	EP thinner (if no hardening has taken place)