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SCHOMBURG

Technical Data Sheet

SOLOPLAN®-FA

Art.-No. 2 00012

Self levelling, fibre reinforced floor levelling compound

CE

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EN 13818
SOLOPLAN-FA
Cement screeding mortar for use in buildings
CT-C30-F7

Reaction to fire	Class E
Release of corrosive substances	CT
Compressive strength	C30
Flexural strength	F7

GEV-EMICODE EC 1 PLUS very low emission

- Fibre reinforced and low shrinkage
- Very low emissions
- Suitable for heated screeds
- For interiors
- For thicknesses from 3 to 20 mm
- Rapid hardening
- Highly polymer modified
- Self levelling
- Class RWFC-550, according to EN 13892-7 after 16 h

Areas of application:

SOLOPLAN-FA is a powder based, highly modified factory blended mortar with reinforcing fibres, which minimises cracks on wooden floors. SOLOPLAN-FA is used at thicknesses from 3 – 20 mm for smoothing, floating and levelling. The wooden floor levelling compound SOLOPLAN-FA is suitable for producing flat, absorbent installation surfaces e.g. for textile finishes, vinyl or cushion flooring, PVC designer flooring, linoleum, cork and tiles.

- On timber floor boards, V100 chipboard without additional reinforcing mesh
- On old substrates with bonded adhesive and levelling compound residues
- For the restoration and repair of wooden floors and additionally for screeds and substrates in old and new construction
- For producing flat, absorbent, high strength installation surfaces for textile and elastic floor finishes as well as for ceramic tiles. When using beneath tiles and natural or agglomerate stone, plan for additional de-coupling membranes on wooden substrates. STEPBOARD in 9 and 15 mm thicknesses are available for this purpose.
- Suitable for use on heated substrates and as a flowing material over thin build-up electrical and warm water heating systems.

SOLOPLAN-FA is used in dry areas and can also be incorporated into rooms with low moisture exposure (wet duty exposure class A0 in accordance with the ZDB data sheet [*1]) when used beneath a waterproof membrane from AQUAFIN-2K/M, AQUAFIN-2K or AQUAFIN-RS300. Not suitable as a wearing finish without additional planned coatings.

Technical Data:

Basis:	special cement with mineral-based aggregates and additives
Colour:	grey
Application temp:	min. +10°C floor, ideally +15°C to +25°C at relative humidity < 75%
Pot life *1):	approx. 45 mins
Foot traffic after *1):	approx. 3 hrs
Full service conditions after *1):	approx. 24 hrs
Drying time *1) *2):	approx. 1 day / 3 mm layer for elastic and textile flooring as well as natural stone, approx. 1 day / 10 mm thickness for ceramic finishes
Classification:	EN 13813 CT-C30-F7
Reaction to fire:	class E
Cleaning:	with water whilst fresh

SOLOPLAN®-FA

Consumption: approx. 1.6 kg/m²/mm thickness

Thickness	Consumption	Sufficient for approx.
3 mm	4.8 kg/m²	5.2 m²
6 mm	9.6 kg/m²	2.6 m²
9 mm	14.4 kg/m²	1.7 m²

Storage: dry, 6 months in the original unopened packaging. Use opened packaging promptly.

Packaging: 25 kg plastic bag

*1) These values relate to +20°C and 65% relative humidity for a 3 mm thickness. Higher temperatures accelerate and lower temperatures retard the setting time.

*2) This information relates to guide values, which does not negate the need for moisture measurements by the carbide method.

Substrate preparation:

The substrate must be load-bearing conforming to loading requirements of DIN 1055 and in accordance with DIN 18365 and DIN 18352, must be sound, dry, free from cracks, clean and free from substances acting as a separating layer. Thoroughly mechanically remove friable layers, separating and laitance layers and similar by suitable measures e.g. planing, blast cleaning techniques or scabbling. Vaccum abrasion dust, then prime with ASO-Unigrund-S. Block off wall/floor junctions e.g. with the edge insulating strip RD-SK50. Moisture from the substrate must be eliminated.

Clean and abrade well bonded ceramic tiles, prime with ASODUR-SG2 blinded with 0.5 – 1.0 mm quartz sand. Remove excess by vacuum once cured.

Wooden substrates must be clean, dry and load-bearing. Replace damaged floor boards. Secure loose, springy or squeaking boards or sheets with screws. Chipboard must be laid with staggered joints, screwed and glued.
The residual moisture of wooden substrates (measured by kiln drying or with a moisture meter suitable for wood) may not exceed 6 to 12% by weight from equilibrium moisture content. Seal joints, cracks and holes with an acrylic sealant.

Follow the product information for the application of products to be used.
The readiness of substrates to receive SOLOPLAN-FA is to be tested by the carbide method. The carbide hygrometer (CM device) may not exceed for:
Cement-based screeds 2.0 CM%
Calcium sufate screeds with underfloor heating 0.5 CM%
Calcium sufate screeds with underfloor heating 0.3 CM%
The CM measurements are to be carried out in accordance with current FBH-AD work instructions from the technical information "Coordination of cut-out points with heated floor constructions".

Product preparation:

1. Prime substrates with ASO-Unigrund-S and allow to dry. On calcium sulfate and cement-based screeds, use diluted 1:1 with water. Use two undiluted coats of ASO-Unigrund-S on timber substrates.
2. Place 6.0 – 6.3 litres of clean water into a clean bucket and sprinkle in 25 kg SOLPLAN-FA. Mix the contents until homogenous with a drill or rotating mixer (max. 600 rpm). We recommend the use of a drill with 500 – 600 rpm using a Collomix paddle type RR140 to 160.
3. Pour SOLOPLAN-FA on to the primed substrate and evenly spread with a smoothing trowel or rake within the pot life, so that the required thickness is applied in one operation where possible. De-aerate the liquid layer with a spiked roller and encourage to flow. The surface and flow are decidedly improved.
4. Protect setting material from rapid water loss from e.g. high room temperatures, direct sunlight and draughts. The air, material and substrate temperatures may not drop below +5°C during application and for the week after.
5. The surface quality and absorption is increased by abrading with 40 to 60 grit after 12 – 24 hours.

SOLOPLAN®-FA

Priming table	
Calcium sufate screed	ASO-Unigrund-S (Mixing ratio 1:1 with water)
Cement-based screed	ASO-Unigrund-S (Mixing ratio 1:1 with water)
Wooden substrates (screwed) such as e.g. OSB boards, wooden floor boards, V100 chipboard	ASO-Unigrund-S
Well bonded ceramic tiles, terrazzo	ASODUR-SG2 *
*Blinded to excess with 0.5 – 1.0 mm quartz sand. Only sweep off and vacuum excess sand once reacted (approx. 16 hrs *1).	

Important advice:

- Before installing finishes, the levelling compound must be fully dry. We recommend that moisture measurements are carried out with a carbide hygrometer.
- Adequate ventilation beneath the wooden floor must be guaranteed especially when installing further vapour proof finishes e.g. by installing ventilation slots or by inserting special skirting strips with vented openings.
- The subfloor construction of wooden floors must be permanently dry in order to prevent moisture damage from decay or mould formation.
- There is a risk of cracking through rapid water loss in heated rooms or highly absorbent substrates.
- Ventilation on site is necessary. However avoid draughts during the application and curing process as well as direct sunlight. The floor and interior temperature must be at least +5°C during application and for the week after. Dehumidifiers may only be used after the first 3 days.
- Essential to the success of floor levelling is the condition of the substrate. Absorbent substrates negatively alter the flow performance of the compound. Therefore thoroughly prepare the substrate, clean and prime.
- Completely remove sulphite lye adhesives.
- As far as possible, mechanically remove small quantities of dispersion-based flooring adhesives, clean and prime with ASODUR-GBM or ASODUR-SG2 blinding to excess with 0.5 – 1.0 mm quartz sand. Remove excess by vacuum once cured.
- Watch the water addition. Adding too much water produces separation together with a weak surface. This causes increased cracking and hollow areas. Such weak surfaces are to be mechanically removed.
- Perimeter, bay, structural and intermediate movement joints are to be brought through or incorporated as designed and blocked off with a suitable material e.g. edge insulation strip (RD-SK50).
- Substrates with a coarse texture lead to greater material consumption.
- High temperatures accelerate and low temperatures retard the setting process.
- Observe the relevant current regulations. E.g.
  DIN 18157
  DIN 18365
  DIN 18352
  DIN 18560
  DIN EN 13813
  DIN 1055
  The BEB information sheets, distributed by the Bundesverband Estrich und Belag e.V.
  The technical information "coordination of cut out points in heated floor constructions".
  The ZDB information sheets, distributed by the professional association of the German tile industry:
  [*1] "Bonded waterproof membranes"
  [*2] "Tiling to calcium sulfate screeds
  [*3] "Movement joints in wall and floor tile finishes"
  [*5] "Ceramic tiles, natural stone and cement-bound composite slabs on cement-based floor constructions with insulation"
  [*6] "Ceramic tiles, natural stone and cement-bound composite slabs on heated cement-based floor constructions"
  [*9] "Tolerances in level"
  [*10] "Tolerances"

- Use only clean tools and clean water.
- Follow the information in the technical data sheets for the products used.

Please observe a current valid EU Health & Safety Data Sheet!
GISCODE: ZP1