

Sikafloor®-Level 25 (G)

Cementitious Self Smoothing Sub-Floor Screed

Product Description Sikafloor®-Level 25 (G) is a one component, polymer modified, pumpable cementitious screed.
Suitable for use in hot and tropical climates.

Uses Sikafloor®-Level 25 (G) is a versatile and durable sub-floor cementitious screed which can be applied manually or by pump to achieve rapid, flat economic substrate levelling prior to the application of the final floor finish.

- Typical uses are in warehouses, factories, manufacturing facilities, hospitals, commercial buildings, domestic buildings
- For fast track floor repairs
- Levelling pre-cast concrete beams and planks

Advantages

- Self smoothing and highly fluid
- Pumpable or manual application
- Rapid drying
- 4 hour walk on time (at 20°C)
- Levels and renovates old floors
- Excellent underlay for resin flooring, tiles and sheet systems
- Low odour
- Protein free
- Suitable for use in hot and tropical climates.

Test Standards Skid resistance as per DIN 51 130, several test reports.
Physiological harmlessness, P 1404-5a.
Decontamination ability "excellent" as per BS 4247, IRAS Ltd., St. Helens, UK as well as per DIN 25 415-1, test report 4098/12.

Product Data

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| Form | Powder |
| Colour | Natural grade (beige). |
| Packaging | 25 kg Bag |
| Storage Condition | Store in original sealed containers in a cool and dry environment between 5°C and 30°C away from direct sunlight. |
| Shelf life | Minimum 1 year from date of production if stored in original unopened containers. |



Technical Data

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| Chemical Base | Polymer modified Portland cement | |
| Density | 2,15 kg/litre (wet) 1,77 kg/litre (dry) | |
| Layer Thickness | Minimum 5mm | Maximum 25 mm |
| Compressive strength | 20 N/mm ² (after 24 hours / 20°C) > 35 N/mm ² (after 28 days / 20°C) | |

System Information

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| System structure | Final Top Surface | Substrate Priming System | Screed Layer | Multi-layer Bonding | Topping |
| | Uncoated or open for water vapour diffusion | Sikafloor-155 W N (0,3 kg/m ²) broadcast with quartz sand (0,6-1,2 mm; 2 kg/m ²) | | | Nothing or Vapour permeable system |
| | Sealed with an impervious system (resin/sheet/tile) Sikafloor-156 or Sikafloor-261 (0,3 kg/m ²) | Sikafloor-156 or Sikafloor-261 (0,3 kg/m ²) broadcast with quartz sand (0,6-1,2 mm; 2 kg/m ²) | Sikafloor®-Level 25 (G) | Sikagard-552 W Aquaprimer (0,1–0,2 litres/m ² , wet on wet) | Sikafloor Primer + Sikafloor Resin System ----- Conventional Sheet/Tile System |

Application Details

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| Consumption | Approximately 1,77 kg/m ² /mm These figures do not allow for surface porosity, profile or wastage. |
| Condition of substrate | The cementitious substrate should be sound and of sufficient compressive strength (min. 25 N/mm ²). Minimum pull off strength 1.5 N/mm ² . The surfaces must be dry and free of all contaminants e.g. oils, grease, surface treatments and coatings etc. |
| Surface preparation | The substrate must be prepared mechanically to achieve an open textured fine gripping surface, free of cement laitance. Weak concrete should be removed and surface defects such as blowholes and voids must be fully exposed. All dust, loose and friable material must be completely removed from all surfaces before application of the coating preferably by brush and vacuum. If sealed with an impervious material, ensure that an effective damp proof membrane is in place before installation of Sikafloor®-Level 25 (G) . |

Application Conditions / Limits

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| Substrate Temperature | + 10°C min.; + 25°C max. |
| Ambient Temperature | + 10°C min.; + 25°C max. |
| Substrate Humidity | See Product Data Sheet of the Primer used. |
| Relative Air Humidity | 80% maximum |

Application Instructions

Mixing Mix the dry powder (25 kg) with clean water. The water addition should be between 4.2 – 4.7 litres per 25 kg of material.
When overworking with a Sikafloor® resin, the ratio should be 4,2 litres per 25 kg of material. When overcoating with a tile or sheet flooring system, 4.7 litres per 25 kg of material can be used.
Leave material to stand in container until the majority of air bubbles have dispersed.

Mixing Time Mix thoroughly with a low speed electric stirrer (300-400 rpm) for a minimum of 3 minutes.

Application method / Tools

Pump:
Use a conventional floor screed dual stage mixer and pump, and control the water dosage to achieve the following flow, measuring the final average diameter on a flat, clean, dry flow table.
Flow = 280 mm ± 10 mm (4.7 liters per 25 kg)
After placing onto the primed surface apply by trowel or pin screed rake to the required thickness. Thoroughly spike roller in two directions to remove any entrapped air.

Manual:
Pour the mixed material onto the primed surface and apply by trowel or pin screed rake to the required thickness. Thoroughly spike roller in two directions to remove any entrapped air.
Freshly applied **Sikafloor®-Level 25 (G)** should be protected from damp, condensation and water for at least 24 hours.
When applying outside, protect from direct sunlight, hot or strong winds and extremes of temperature to avoid cracking or crazing.
When overcoating with Sikafloor® resins, mechanical preparation is required to remove any laitance which may have formed during application.
Any subsequent layers of **Sikafloor®-Level 25 (G)** should be bonded using a bonding primer of Sikagard-552 W Aquaprimer.

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| Pot-life | +10°C | +20°C | +30°C |
| Sikafloor®-Level 25 (G) | ~ 25 min. | ~ 20 min. | ~ 15 min. |

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| Waiting time / Overcoatability | Water based materials | 8 hours |
| | Solvent free materials | 24 hours |
| | Solvented materials | 36 hours |

Notes on Application /Limits

- Not suitable for slopes or inclines > 0,5%.
- For sections > 12 mm thickness, to achieve maximum aesthetics and optimum de-aeration with the spiked roller, use a 5 mm (approximate) top layer.
- **Sikafloor®-Level 25 (G)** does not provide an aesthetic finish. Product should always be overcoated.
- Before overcoating, check moisture content.

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| Curing | Foot traffic | 4 hours |
| | Lightly serviceable | 24 hours |
| | Fully serviceable | 48 hours |

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| Cleaning Equipment | Clean tools and equipment immediately after use with water. Cured material can only be removed mechanically. |
| Note | All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. |
| Safety | For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data. |
| Legal Notes | The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request |



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