



M10 Specification

Suggested Sika M10 Specification for:

Our Reference:

Date:

SIKA LIMITED

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M10 CEMENT BASED LEVELLING / WEARING SCREEDS

To be read with preliminaries / general conditions and the Sika Limited project specific specification.

The details contained within this proposal are based on information available at the time of writing. It covers the installation of Sika Limited materials and the preparation work necessary to provide a suitable substrate. Sika Limited cannot be held responsible for unknown site conditions or for the performance of materials within the system other than Sika Limited products or Sika Limited branded products.

A detailed method of work statement and programme of works should be agreed with the Sika Limited Registered Contractor before the commencement of the works.

The requirements of all relevant British Standards and Industry Codes of Practice should be complied with at all times. A bibliography is available upon request.

TYPES OF SCREED

130 PROPRIETARY QUICK DRYING LEVELLING SCREEDS

- Substrate: Concrete for other substrates please contact Sika Limited)
- Screed manufacturer: Sika Limited, Watchmead, Welwyn Garden City AL7 1BQ
Tel 01707 394444 : www.sika.co.uk
- Product reference: Sikafloor Level 30
- Pumpable polymer modified, fast drying self-levelling, cementitious screed, meeting the requirements of R3-BSEN1504-3.
- Compressive Strength: 20Nmm² (after 24 hrs) +20° (EN13892-2)
- 40 Nmm² (after 28 days) + 20° (EN13892 -2)
- Flexural Strength: 3Nmm² (after 24 hrs) +20° (EN13892-2)
- 10Nmm² (after 28 days) +20° (EN13892 -2)
- Adhesive Strength: 2.2Nmm² (EN 1542)
- Screed construction: Bonded using Sikafloor 161
- Thickness:
 - Nominal: 30mm
 - Minimum: 4mm
- Mix:
 - Cement:
 - Proportions: to manufacturer's recommendations.
- Finish: Smooth
- To receive: subsequent Resin Finish
- System build up
 - 1 x Sikafloor 161as DPM
 - 1 X Sikafloor 161 broadcast with 0.4-0.7 mm quartz to provide mechanical key
 - Sikafloor Level 30 ~4-30mm
 - 1 X Sikafloor Proseal as curing membrane/seal coat

210 SUITABILITY OF SUBSTRATES

- General:
- Suitable for specified levels and flatness/ regularity of finished surfaces. Consider permissible minimum and maximum thicknesses of screeds
- Sound and free from significant cracks and gaps
- Concrete strength: Min 25Nmm²
- Moisture content: To suit screed type <6% by Tramex Metre using Sikafloor 161 as a DPM

215 SURFACE HARDNESS OF SUBSTRATES TO RECEIVE POLYMER MODIFIED WEARING SCREEDS

- General: Substrates must restrain stresses that occur during setting and hardening of wearing screeds
- Test for surface hardness: To BS EN 12504-2 using a rebound hammer with compliance values as follows:
- Rebound hammer value (minimum):25Nmm²
- Min pull off 1.5Nmm²
- Report: Submit details of areas where substrate surface hardness does not comply with these values

220 PROPRIETARY LEVELLING/ WEARING SCREEDS

- General: Materials, mix proportions, mixing methods, minimum/ maximum thicknesses and workmanship must be in accordance with recommendations of screed manufacturer

230 CONTROL SAMPLES

- General: Complete areas of finished work and obtain approval of appearance before proceeding
- Screed type: Polymer Modified Cement

260 FULLY BONDED CONSTRUCTION

- Preparation: Mechanical preparation in accordance with manufacturer's instructions
- Texture of surface: Suitable to accept screed and achieve a full bond over complete area
- Bonding coat: Sikafloor 161 Broadcast with quartz sand

330 MIXING

- Water content: Minimum necessary to achieve full compaction, low enough to prevent excessive water being brought to surface during compaction.
- Mixing: Mix materials thoroughly to uniform consistency. Mixes other than no-fines must be mixed in a suitable forced action mechanical mixer. Do not use a free fall drum type mixer.
- Consistency: Use while sufficiently plastic for full compaction.

LAYING

345 LEVEL OF SCREED SURFACES

- Wearing screed surfaces: Make good with compatible repair mortars from Sika Ltd. Wood float. When hardened remove laitance



405 JOINTS IN LEVELLING SCREEDS GENERALLY

- Laying screeds: Lay continuously using 'wet screeds' between strips or bays.
- Joint Sealant: bring expansion joints through substrate and seal with flexible polyurethane Sikaflex PRO3

FINISHING/ CURING

510 FINISHING GENERALLY

- Timing: Carry out all finishing operations at optimum times in relation to setting and hardening of screed material
- Prohibited treatments to screed surfaces:
 - Wetting to assist surface working
 - Sprinkling cement

540 TROWELLED FINISH TO LEVELLING SCREEDS

- Floating: To an even texture with no ridges or steps.
- Trowelling: To a uniform, smooth but not polished surface, free from trowel marks and other blemishes, and suitable to receive specified flooring material.
- The use of a spiked roller is recommended but not essential

650 CURING

- General: Prevent premature drying. Immediately after laying, protect surface from wind, draughts and strong sunlight. Do not subject screeds to artificial drying conditions that will cause cracking or other shrinkage related problems

680 SURFACE SEALER TO WEARING SCREEDS

- Manufacturer: Sika Limited
- Product reference: Sikafloor Proseal Curing and Sealing Compound
- Preparation: Apply to fresh concrete immediately after finishing techniques have been completed and surface has hardened sufficiently
- Application: Continuous application by low pressure spray unit, can be brush or roller applied. The highest visual aesthetics and performance can be improved by a second coat