BUILDING TRUST

M10 Specification

Suggested Sika M10 Specification for:

Our Reference:

Date:

SIKA LIMITED

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BUILDING TRUST

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 and cementitious screed, other substrates please contact manufacturer
- Screed manufacturer: Sika Limited Watchmead Welwyn Garden City AL7 1BQ 01707394444 www.sika.co.uk
- Product reference: Sikafloor -200 Level
  C25 – F6 according to EN13813
  Foot traffic: Typically 4 hours
  Over Coat: Up to 40mm after approx. 24 hours for all kind of coverings.
  Consult manufacturer of over coating materials for further specific guidance.
  (All Values are approximate and are subject to climate fluctuations. Values are given with 20°C and 65% relative humidity, temperature of substrate +15°C)
  Compressive Strength: 25N/mm² @ 28 days EN13892-2
  Flexural Strength: >6Mpa (+20°C) @ 28 days EN13892-2
  Screed Construction:
  System Build Up: Primer
  Sikafloor 01 Primer/ Sikafloor 02 Primer / Sikafloor 03 Primer dependant on substrate type and conditions. Please consult manufacturer's data sheet.
  Sikafloor -200 Level
- Thickness:
- Nominal: 3 – 40mm
- Mix: Polymer modified cement.
- Proportions: To manufacturer's recommendations.
- Finish: Smooth
- To receive: Floor covering for interior and exterior use

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: Minimum 25N/mm² In accordance with BS 8204-1, Table 2.

- Cleanliness: Remove debris and dirt.
- Moisture content: To suit screed type. New concrete slabs to receive fully or partially bonded construction must be dried out by exposure to the air for minimum six weeks. Rooms and buildings without a basement are to be sealed against rising dampness in compliance with the relevant standard.

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):
  Screed thickness 15 mm or less: 25.
  Screed thickness greater than 15 mm: 30.
- 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: Generally in accordance with manufacturer's instructions
  Texture of Surface: suitable to accept screed and achieve a full bond over complete area.
- Bonding coat: Sikafloor 01 Primer/ Sikafloor 02 Primer/ Sikafloor 03 Primer, dependant on substrate type and conditions. Please consult manufacturer's data sheet.

330 MIXING

- Water content: as per manufacturer's instructions, typically 4.5ltrs per 25kg bag.
- Mixing: Mix materials thoroughly to uniform consistency using paddle and drill mixer. Do not use a free fall drum type mixer.
- Consistency: Use while material is still in a fluid state.

LAYING

345 LEVEL OF SCREED SURFACES

- Make good with compatible repair mortars from Sika Limited.
- Pour out levelling compound and spread using a smoothing trowel, even surfaces are easily achieved with a suitable notched trowel.

405 JOINTS IN LEVELLING SCREEDS GENERALLY

- Laying screeds: Lay continuously using 'wet screeds' between strips or bays. Minimize defined joints.
- Joint Sealant: Bring expansion joints trough substrate and seal with flexible polyurethane Sikaflex Pro3 i-Cure.

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.

650 CURING

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