



# M12 Specification

**Suggested Sika M12 Specification for:**

**Our Reference:**

**Date:**

SIKA LIMITED

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## **M12 RESIN FLOORING**

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 FLOORING**

### **110 RESIN FLOORING**

- Substrate: Concrete /Cement Screed for other substrates please contact Sika Limited)
- Preparation: Strictly in accordance with Manufacturers recommendation
- Resin flooring System: Sikafloor ComfortFloor
- Manufacturer: Sika Limited [www.sika.co.uk](http://www.sika.co.uk) Tel : 01707 394444
- Build up:
- Levelling if required.: Sikafloor 161 mortar / Sikafloor Level 30.
  - Primer reference: Sikafloor 161
  - Basecoat: Sikafloor 300
  - Broadcast: PVA Colour Flakes
  - Mandatory Seal Coat: Sikafloor 304W
  - Application: Resin flooring trowel applied 2 – 4 mm
  - Colour: To be selected by client from ComfortFloor Colour Card
  - Surface Finish/Treatment: As per manufacturer's recommendation
  - Flatness/Surface Regularity:
  - Sudden irregularities: Not permitted
  - Classification of surface regularity to BS 8204-6: SR2
  - Slip resistance: Pendulum test value to BS 7976-2 or in accordance with BS 8204-6, Annex B: R10

### **120 RESIN FLOORING**

- Substrate: Concrete/Cement Screed
  - Preparation: Strictly in accordance with Manufacturers recommendation



- Resin flooring system:
  - Manufacturer: Sika Limited [www.sika.co.uk](http://www.sika.co.uk) Tel 01707394444
  - 2 component, seamless, solvent free, low voc elastic, self-smoothing resin
  - Type: Polyurethane Resin
  - Colour: To be selected by client from ComfortFloor Colour Card
  - Surface finish/ treatment: Strictly as per manufacturer's recommendation
  - Flatness/ Surface regularity:
    - Sudden irregularities: Not permitted
    - Classification of surface regularity to BS 8204-6: SR2
- Slip resistance: Pendulum test value to BS 7976-2 or in accordance with BS 8204-6, Annex B:

## R10

- Impact Resistance class 1..... 8Nm ( ISO 6272 )
  - Abrasion resistance <3000mg (EN ISO 5470-1)
  - Wearing resistance wearing group P (EN 660-2:1999)
  - Indentation 0.01mm (EN433:1994)
  - Resistance to furniture leg movement, No Damage (EN424:2002)

## PREPARATION OF SUBSTRATES

### 210 TESTING MOISTURE CONTENT OF SUBSTRATES

- Drying aids: Remove minimum four days prior to test.
- Test: To BS 8203, Annex A using an accurately calibrated hygrometer.
- Location of readings: Corners, along edges, and at various points over the test area.
- Moisture content of substrate <6% using Tramex meter (at time of application) using Sikafloor 161 primer

### 220 SURFACE HARDNESS OF SUBSTRATES

- General: Substrates must restrain stresses that occur during setting and hardening of resin.
- Test for surface hardness: To BS EN 12504-2 using a rebound hammer, minimum compressive strength of 25 N mm<sup>2</sup>
- Minimum pull off strength of 1.5 Nmm<sup>2</sup>
  - Test results: Submit.
  - Areas of non compliance: Submit remedial proposals.

### 230 PREPARATION OF SUBSTRATES GENERALLY

- Chases/ Saw cuts: Cut/ break out at skirtings, free edges, movement joints, etc. for termination of resin flooring.
- Blow holes, cavities, cracks, etc: Fill with repair product recommended by resin flooring manufacturer.

- Cleanliness: Remove surface contaminants, debris, dirt and dust.
- Surface texture: Suitable to accept resin flooring and achieve a full bond over the complete area.

#### **240 EXISTING SUBSTRATES**

- Preparation: Remove surface imperfections, ingrained contaminants, coatings and residues.
- Contaminated areas: Submit proposals for removal and repair.

#### **260 METAL SUBSTRATES**

- Cleaning: Shot blast to BS EN ISO 8501-1, grade Sa2.5.
- Treated surfaces: Clean. Free from visible oil, grease and dirt, mill scale, rust, paint coatings and foreign matter.

#### **LAYING FLOORING**

#### **310 WORKMANSHIP**

- Operatives:
  - Trained/ Experienced in the application of resin floorings.
  - Evidence of training/ experience: Submit on request.
- Fillers and incorporated aggregates: Thoroughly mix in to ensure wetting. Avoid over-vigorous mixing resulting in excessive air entrainment.
- Scattered aggregates: Broadcast onto wet surface of resin.
- Appearance: Consistent.
- Curing: Allow appropriate periods between coats and before surface treatments and trafficking/ use.

#### **320 CONTROL SAMPLES**

- Approval of appearance: Obtain before proceeding.

#### **350 COATED RESIN FLOORING**

- Application: Even, of uniform thickness, surface finish and colour.

#### **355 FLOW APPLIED COATED RESIN FLOORING**

- Application: Even, of uniform thickness, surface finish and colour.
- Trapped air: Roll to release.
- Broadcast resin surface with PVA colour flakes to achieve aesthetic effect.



### **380 SURFACE SEALER**

- Application: Even to completely wet resin surface – Sikafloor 304W

### **400 BOND STRENGTH OF RESIN FLOORING**

- Contact surfaces: Substrate and fully cured resin flooring.
- Bond: In accordance with manufacturer's performance data.
- Test: To BS 8204-6, clause 11.4 and BS EN 1542.>2.0Nmm<sup>2</sup>

### **410 RESIN SKIRTINGS/ UPSTANDS**

Seamless coving transition strictly in accordance with Manufacturers standard details.

### **420 FREE EDGES OF RESIN FLOORING**

- Transition to abutting floor finishes: Straight and smooth.
- Retention of resin edges: