BUILDING TRUST

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 262AS
- Manufacturer: Sika Limited Web: www.sika.co.uk Tel: 01707 394444
- Levelling if required: Sikafloor Levelling compound : Sikafloor 161 scratch coat.
- Build up: Sikafloor 161 Primer
- Earthing Connection: Sikafloor Earthing Kit and Copper Tape
- Conductive Layer: Sikafloor 220w
- Wearing course: Sikafloor 262AS 1pbw + Quartz Sand 0.2pbw (0.1 – 0.3mm)
- Application: Self smoothening flooring resin trowel applied ~ 1.5mm
- Spike roller to remove air
- Colour: To be selected by client from RAL/BS colour schemes
- Surface Finish/Treatment: As per manufacturer's recommendation
- Flatness/Surface Regularity:
- Sudden irregularities: Not permitted
- Classification of surface regularity to BS 8204-6: SR1
- Slip resistance: Pendulum test value to BS 7976-2 or in accordance with BS 8204-6, Annex B:

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120 RESIN FLOORING

- Substrate: Concrete/Cement Screed
- Preparation: Strictly in accordance with Manufacturers recommendation
- Resin flooring system:
- Manufacturer: Sika Limited
- 2 component, economical, seamless, trowel applied, self-smoothening resin for medium to heavy wear e.g. storage area, assembly halls, maintenance workshops, garages, loading bays etc.
- Type: Epoxy Resin
- Colour: To be selected by client from RAL /BS colour schemes.
- Surface finish/ treatment: Strictly as per manufacturer's recommendation
- Flatness/ Surface regularity:
- Sudden irregularities: Not permitted
- Classification of surface regularity to BS 8204-6: SR1
- Compressive Strength Resin filled(1:0.3 with F34) - 80N mm^2(28 DAYS/+23^o C).
- Flexural Strength Resin filled(1:0.3 with F34) - 40N mm^2(28 DAYS/+23^o C).
- Bond Strength >1.5Nmm^2 (failure in concrete)
- Shore D hardness 77 (7 Days/+23^{o}C)
- Abrasion resistance 100 mg (CS 10/1000/1000) (7 days / +23°C)
- Electrostatic behaviour:
  Resistance to ground: Rg < 10^9 Ω IEC 61340-4-1
  Typical average resistance to ground: Rg ≤ 10^6 Ω DIN EN 1081

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.
- Relative humidity before laying resin flooring (maximum): 75%RH.

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^2
- Minimum pull of strength of 1.5 N mm^2
- Test results: Submit.
- Areas of noncompliance: Submit remedial proposals.

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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.

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.
- Appearance: Consistent.
- Curing: Allow appropriate periods between coats and before surface treatments and trafficking/ use.

320 CONTROL SAMPLES

- Approval of appearance: Obtain before proceeding.
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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.

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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

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:

430 SEALANT MOVEMENT JOINTS

- Location: Centre over movement joints in substrate.
- Joint Width: As per design.
- Joint brought through resin surface and sealed with appropriate Polyurethane joint sealant.
- Sealant: Sikaflex.