



### M12 RESIN (VERTICAL SURFACES) – Altro Screed 3mm

To be read with Preliminaries/ General Conditions

#### TYPE(S) OF SYSTEM

- 110A RESIN
- Project:
  - Location:
  - Substrate:
  - Preparation:
  - Resin flooring system:
  - Manufacturer: ALTRO RESIN SYSTEMS, Unit 3, Station Road Industrial Estate, Maiden Newton, Dorchester, Dorset, DT2 OAE
  - Primer reference: **Altro Prime standard**
  - Resin flooring reference: **Altro Screed 3mm standard**
  - Application: **3mm** Nominal thickness
  - Colour: TBA
  - Surface finish: In strict accordance with manufacturer's instructions. Flatness/Surface regularity:
    - Sudden irregularities: Not permitted.
  - Other requirements: **Please refer to Technical Data sheet in association with this specification.**
- 110B RESIN
- Project:
  - Location:
  - Substrate:
  - Preparation:
  - Resin flooring system:
  - Manufacturer: ALTRO RESIN SYSTEMS, Unit 3, Station Road Industrial Estate, Maiden Newton, Dorchester, Dorset, DT2 OAE
  - Primer reference:
  - Resin flooring reference: **Altro Screed 3mm**
  - Application: **3mm** Nominal thickness
  - Colour: TBA
  - Surface finish: In strict accordance with manufacturer's instructions.
  - Flatness/Surface regularity:
    - Sudden irregularities: Not permitted.
  - Other requirements: **Please refer to Technical Data sheet in association with this specification.**

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#### PREPARATION OF SUBSTRATES

- 210 TESTING MOISTURE CONTENT OF SUBSTRATES
- Drying aids: Remove minimum four days prior to test.
  - Relative humidity before laying resin (maximum): 75% R.H.
  - Method of testing in accordance with British Standard
- 210A SURFACE APPLIED DAMP PROOF MEMBRANE
- Manufacturer and reference: **Altro Proof standard, epoxy surface damp proof membrane by Altro Floors effective up to 97% R.H.**  
**NB:** Please note Altro Proof fast track is also available where coverings are to be laid same day. Conditions apply.

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- Apply in accordance with manufacturer's instructions.

### 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 to ensure that a minimum strength of **26 N/mm<sup>2</sup>** is achieved. Surface tensile strength **>1.5N/mm<sup>2</sup>**.
- Areas of non-compliance: Submit remedial proposals for repair or cut out and replacement.

### 225 SUITABLE SUBSTRATES

- To be a sound, stable structure incorporating a satisfactory damp proof membrane in accordance with the Code of Practice BS8000 where applicable. The type of construction suitable to receive Altro resin cove detail being either: flush jointed brickwork / blockwork, cement/polymer rendered brickwork / blockwork, 18mm R.B.P. (Resin Bonded Ply – fixed securely to a stable background) or insulated sandwich partition with stainless Expamet mechanically fixed at cove detail.

### 230 PREPARATION OF SUBSTRATES GENERALLY

- Prepare existing wall surface as necessary to remove loose or friable material and leave clean, stable keyed surface.
- Blow holes, cavities, cracks, etc: Fill with repair product: Altro Patch in accordance with manufacturer's instructions.
- Bay Joints: A section of Promesh Grade 5 should be adhered into the 1<sup>st</sup> coat of primer across each joint centred to a width of 150mm on either side.

Paragraph **340** refers.

**NB:** All live movement / crack induced joints should be brought through the resin and infilled with colour matched Altro Expand.

- Saw cuts: All edges/interfaces to be primed as highlighted in paragraph 330.
- Surface texture: Suitable to accept resin flooring and achieve a full bond over the complete area. Please note thinner resin floorings (coatings) will reflect the surface preparation in the finish.

### 240 EXISTING SUBSTRATES

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

## LAYING

### 310A WORKMANSHIP

- Operatives: Trained/ Experienced in the application of resin floorings.
- Evidence of training/ experience: on request.
- Fillers and incorporated aggregates: Thoroughly mix in to ensure wetting. Avoid over-vigorous mixing resulting in excessive air entrainment.
- Scattered aggregates: (where appropriate) Broadcast onto wet surface of resin.
- Appearance: Consistent.
- Curing: Allow appropriate periods between coats, before surface treatments, and before trafficking/use in accordance to manufacturer's instructions.
- Health & Safety: Refer to MSDS's. FERFA publication: Guide to PPE for use with in Situ Resin Floors and Surface Preparation.

### 320 CONTROL SAMPLES

- Complete areas of finished work in the following locations:

### 320A SAMPLES

- General: Ensure that representative samples are provided (available from Altro) to the nominated sub-contractor in order to avoid any uncertainty over the expected finish.

### 330A PRIMING

- Apply a coat of **Altro Prime** to leave an even closed surface and lightly seed with 0.7-1.2mm quartz aggregate at a rate of 100g/m<sup>2</sup> and leave to cure. Re-prime area applying **Altro Prime**

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**standard** (1kg unit) modified with **Altro TX** (0.5 Litre) to produce a paste consistency, and apply to provide a uniform liberal coating to the pre primed area.

### 340 REINFORCEMENT

- Fabric: **Promesh Grade 5** glass fibre or similar as local reinforcement.
- Locations: Bay joints.
- Laps: (Minimum) 50mm ether side.
- Bedding: Roll into prime coat.

### 357A TROWEL APPLIED SCREED

- Apply **Altro Screed 3mm** at nominal thickness of **3mm** to primed surface using a stainless steel trowel taking care to compact and close the surface evenly, ensuring that trowel marks are kept to a minimum. Allow to cure for maximum of 24 hours prior to seal coat application.

#### **Curing (Cleaning Purposes):**

Full Chemical **Cure**

7 days @ +20°C

### 357B TROWEL APPLIED SCREED

- Apply **Altro Screed 3mm** at nominal thickness of **3mm** to primed surface using a stainless steel trowel taking care to compact and close the surface evenly ensuring that trowel marks are kept to a minimum. Allow to cure for maximum of 24 hours prior to seal coat application.

**NB:** It is also advisable to change buckets and clean the one you're using every three to four mixes to prevent any accumulations in the bucket. Placing the material on the wall using plastic floats is also critical to help to avoid metal transfer, just the final closing should be done with a steel trowel and that should be stainless.

#### **Curing (cleaning purposes):**

Full Chemical Cure

7 days @ +20°C

### 380A SURFACE SEALER

- After thorough de-nibbing and vacuuming of cured quartz screed apply coat of **Altro Screed standard seal coat** using dense polypropylene foam squeegee, working the seal into the surface, ensuring that porous areas of screed are fully satisfied. Roll surface with short nap synthetic roller to leave a uniform and even surface. Allow to cure for not longer than 24 hours. Apply thin second coat of **Altro Screed standard seal coat** by squeegee and synthetic roller to leave an even closed film across surface of floor finish in the same manner as the first. Leave to cure.

### 380C COSMETIC MATT SEAL. (Optional)

- Apply a very **thin** coat of **Altro Seal water-based matt** using a squeegee and laying off with a short nap synthetic gloss roller. Heavy application of this seal will result in an opaque appearance of the finished floor; therefore care is required in its application.

### 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.

### 420 FREE EDGES OF RESIN FLOORING

- Transition to abutting floor finishes: Straight and smooth. Surfaces should be primed using **Altro Prime standard**.
- Retention of exposed resin edges: Chamfer edges to a depth of 1.5 times the nominal thickness of the system being installed to allow for toeing in.
  - Drawing reference RF4 refers.

### 430 SEALANT MOVEMENT JOINTS

- Location: Centre over movement joints in substrate.

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- Preparation and application: Method: Cut required chases mechanically and pack out the cut groove with flexible packer (flooring contractor's choice) before applying sealant.
- Joint width and depth to be agreed before installation.
- Sealant: Altro Expand vertical. (Altro Prime standard contact surfaces)
- Colour: Matched to resin).
  - Drawing reference RF1 refers.

#### 445 CLEANING & MAINTENANCE

- The frequency and procedure of cleaning and maintenance associated with this system should be established with the Client/End User and carried out in accordance with the Altro Resin Flooring Cleaning and Maintenance Recommendations which are available upon request.

#### 450 PROTECTION TO HANDOVER

- Whilst of an extremely durable nature these floor systems must be thoroughly protected from the rigours and abuse that exist during the ongoing contractual works. Sufficient cure must take place before the protection is placed. The use of untreated felt paper or plain cardboard where light access is required should be considered. Where heavier access is required then a more suitable medium to take the loadings should be considered, such as shuttering ply or Correx by Cordek placed on top of the felt paper. All protection medium joints should be taped, and all accidental spillages should be recovered immediately by removal and reinstatement of the protection. Damage will occur to the system if the guidance is not followed.

#### 455 SITE CONDITIONS

- It is imperative that the correct site conditions prevail to ensure that the installing Contractor can maximise the opportunity of installing the Altro resin system to a high standard. The correct lighting and temperature, together with the absence of all other trades for the duration and cure of the product will ensure its specified performance value will meet the Client's expectations.