



**M12 RESIN (VERTICAL SURFACES)**

**To be read with Preliminaries/ General Conditions**

**TYPE(S) OF SYSTEM**

**110A RESIN - Altro Seal standard**

- 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 Seal gloss single pack (clear)**
- Resin flooring reference: **Altro Seal standard**
- Application: **180 microns** Nominal thickness (90 microns per coat)
- Colour: TBA
- Surface finish: In strict accordance with manufacturer's instructions.
- Flatness/Surface regularity:
  - Sudden irregularities: Not permitted.
- Classification of surface regularity to BS 8204-6: Not required
- Other requirements: **Please refer to Technical Data sheet in association with this specification.**

**110B RESIN - Altro Coat vertical**

- 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: **None**
- Resin flooring reference: **Altro Coat vertical**
- Application: **180 microns** Nominal thickness (90 microns per coat)
- Colour: TBA
- Surface finish: In strict accordance with manufacturer's instructions.
- Flatness/Surface regularity:
  - Sudden irregularities: Not permitted.
- Classification of surface regularity to BS 8204-6: Not required
- Other requirements: **Please refer to Technical Data sheet in association with this specification.**

**110C RESIN - Altro Tect vertical**

- 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: **None**
- Resin flooring reference: **Altro Tect vertical**
- Application: **350 - 500 microns** Nominal thickness
- Colour: TBA

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- Surface finish: In strict accordance with manufacturer's instructions.
- Flatness/Surface regularity:
  - Sudden irregularities: Not permitted.
- Classification of surface regularity to BS 8204-6: Not required
- Other requirements: **Please refer to Technical Data sheet in association with this specification.**

### 110D RESIN – Altro Tect vertical clear

- 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: **None**
- Resin flooring reference: **AltroTect vertical clear**
- Application: **350 - 500 microns** Nominal thickness
- Colour: TBA
- Surface finish: In strict accordance with manufacturer's instructions.
- Flatness/Surface regularity:
  - Sudden irregularities: Not permitted.
- Classification of surface regularity to BS 8204-6: Not required
- 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.
- 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% R.H.**

#### 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 AltroProof Solo 'Fast Track' variant is also available floor coverings are to be laid same day. Conditions apply.  
Apply in accordance with manufacturer's instructions.  
**In the event of underfloor heating please consult Altro Technical for conditions of use.**

#### 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 **>1.5 N/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.

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- 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.  
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 FLOORING

- 310A WORKMANSHIP
- Operatives: Trained/ Experienced in the application of resin floorings.
  - Evidence of training/ experience: on request.
  - 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:  
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- 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 – Altro Seal**
- Roller apply coat of **Altro Seal gloss single pack clear** at rate to satisfy porosity of substrate using a short nap synthetic roller and leave to cure. Ensure good airflow and ventilation to assist with cure.
- 350A COATED RESIN – Altro Seal vertical
- Roller apply coat of **Altro Seal standard / standard clear** at rate to satisfy porosity of substrate using a short nap synthetic roller and leave to cure. Apply second coat of **Altro Seal standard/standard clear** to leave even closed film across wall surface observing the coverage guide on the Technical Data Sheet. Intercoat period: 6 – 24hrs @ 20°C . Ensure good airflow and ventilation to assist with cure.
- Curing (Cleaning Purposes)  
Full chemical cure 4 - 7 days @ +20°C
- 350B COATED RESIN – Altro Coat vertical
- (Where substrate is porous a diluted **Altro Coat (up to 20% with water)** may be necessary). Roller apply coat of **Altro Coat vertical** using a low loss medium pile synthetic roller, distribute the material evenly and uniformly to fully treat the surface observing the coverage guide on the Technical Data Sheet. Apply second coat of **Altro Coat vertical** to leave even closed film across wall surface. Intercoat period: 18 – 24hrs @ 20°C. Ensure good airflow and ventilation to assist with cure.
- Curing (Cleaning Purposes)  
Full chemical cure 7 days @ +20°C

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- 350C COATED RESIN – ALTRO Tect vertical
- Roller apply coat of **Altro Tect vertical** using a low loss medium pile synthetic roller, distribute the material evenly and uniformly to fully treat the surface observing the coverage guide on the Technical Data Sheet. Apply second coat of **Altro Tect vertical** to leave even closed film across wall surface. Intercoat period: 18 – 24hrs @ 20°C. Ensure good airflow and ventilation to assist with cure.
- Curing (Cleaning Purposes)  
Full chemical cure 7 days @ +20°C
- 350D COATED RESIN – Altro Tect Vertical clear
- Roller apply coat of **AltroTect vertical clear** using a low loss medium pile synthetic roller, distribute the material evenly and uniformly to fully treat the surface observing the coverage guide on the Technical Data Sheet. Apply second coat of **Altro Tect vertical clear** to leave even closed film across wall surface. Intercoat period: 18 – 24hrs @ 20°C. Ensure good airflow and ventilation to assist with cure.
- Curing (Cleaning Purposes)  
Full chemical cure 7 days @ +20°C
- 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.
- 430 SEALANT MOVEMENT JOINTS
- Location: Centre over movement joints in substrate.
  - 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** . (**Altro Prime standard** contact surfaces)
  - Colour: Matched to resin).
    - Drawing reference vertical RF1 refers.
- 445 CLEANING & MAINTENANCE
- The frequency and procedure of cleaning and maintenance associated with this flooring 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 flooring 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.

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