

Specification to Thin Joint Block Work Walls

A three coat application is recommended for Thin Joint Block work Walls, a base coat of Alltek Blue Lissage to be applied directly to the Blocks up to a depth of 2-3mm followed by second coat of Alltek Blue Lissage and Alltek Universal red mix (2 Blue – 1 Red) and then a final coat of Alltek Red, Orange or Violet. The Wall needs to be built true and straight. The pointing between the vertical joints of the Blocks should be filled and left flush with the surface of the block. Any cables or Electric boxes should be recessed into the wall and protrude no more than 1-2mm from the surface of the block. If the cables and boxes are sitting on the surface, i.e. as for a 13-20mm render coat, then two options become available. 1) Dot & Dab with plasterboard and finish as per the Alltek Plasterboard specification. 2) Render the wall with a bonding plaster prior to the Application of Alltek Red, Orange or Violet.

On external corners and internal angles for window reveals etc a thin joint plastic or metal bead should be fixed and secured with fixings and filled out with a suitable mortar / filler. Above the bulk heads of doors, lintels should be covered with a suitable mesh and bedded in with a suitable mortar or filler to prevent cracking prior to the application of Alltek. Alltek Lite+ is a suitable ready mixed joint filling compound.

Preparation prior to application would be to check that beads are secure and mortar/filler is dry, any rough areas of mortar/Glue on the blocks is removed with a scraper, any large cracks, air holes or imperfections in the wall have been rectified with a suitable filler.

Apply the first coat of Alltek Blue Lissage to a depth of 2-3mm and level smooth using a spatula and or straight edge. Start levelling off from the ceiling down to about 300mm from the floor and then work from the floor up taking out any trowel marks, work left to right across the wall, in the corners use a corner trowel to achieve a smooth angle and then work the material away from the corner to achieve a smooth finish.

Alltek is normally dry in 24hrs, once it is dry apply a second coat of Alltek Blue lissage and Alltek Universal Red mix and level as the first coat. Apply the finishing coat of Alltek Red / Alltek Orange or Alltek Violet subject to decorative finish required.

Total thickness with one coat of Blue and one coat of Red/Orange/Violet will be 2-4mm, for three coats of Alltek, Blue/ Red/Orange/Violet it will be 4-6mm. All material removed in the levelling process is re worked through the machine so there is very little material waste.

Sports Halls and Areas that require a Hard Finish to Protect from possible Damage / Abuse

Apply Angle Beads and prepare tape and jointing as required, bed in a Suitable Glass Fibre Matting over all joints to strengthen and Apply Alltek Blue Lissage as the base coat. Once dry apply two finishing coats of Alltek Violet and Portland Cement. (Alltek VIOLET mixed 4 parts Alltek (25kg) to 1



part OPC (6kg) plus some water to consistency). - This can be mixed separately or in the spray-unit hopper using a power mixer. Apply to Surface and level flat with Spatulas taking care to remove any trowel lines ready for final decoration. We recommend the weight for the matting to be 160 – 180g.

NB. The Spray machine will need to be cleaned of any mixed material at the end of the working day and thoroughly cleaned with water to prevent hardening of material in the Hose.

Product Performance and Accreditation

All Alltek products are manufactured as a ready mixed paste for use straight from the bag, no mixing is required on site. Alltek is a green non toxic material and is air drying. It absorbs and releases moisture greatly reducing the incidence of condensation and mould growth and has inherent flexibility and is much less prone to cracking, chipping and flaking than traditional Gypsum based plasters.

Alltek is a fast machine applied concept designed for fast track building projects, typically a minimum of 200metres can be applied in an 8 hour working day, the material can be left in a range of finishes, Flat Smooth, Textured or Decorative leathered/bark finish. The product can be pre coloured in the factory to a wide range of pastel shades reducing decorating costs as just one full coat of emulsion would be required on flat smooth finishes. No further decoration would be required if a Textured or Leathered/Bark finish were required.

Alltek has achieved the following accreditation:

Bond Strength: ASTM C321-83- 0.33n/mm²

Pull of Adhesion Strength: BS5270 – 0.35n/mm²

Impact strength: BS1191 - 4.5mm

Flexural Strength: BS4551 - 1.8n/mm²

Compressive Strength²: BS4551 - 2.2n/mm²

Acoustic Test: BS2750 – 4mm of Alltek = 13mm of Carlite Bonding

(On a recent test 49db was achieved onto Calcia Silika blocks, Alltek gave an extra 15db)

Fire Test: BS476 Part 6 & Part 7 For further information visit our web site www.alltekuk.com

