

Solver Paints

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PRODUCT INFORMATION

SS-113

PREPARATION OF TILT-UP & PRECAST CONCRETE CONSTRUCTION BEFORE PAINTING

Tilt up & precast concrete is a major building method for medium and large structures. Most of these structures require painting with either conventional coatings or textured finishes for aesthetics and protection. Painting of these structures normally gives outstanding long term results, however certain guidelines must be followed to ensure success.

CONCRETE CURING

Allow tilt-up slabs to cure for at least 6 weeks to reduce alkalinity, for precast allow up to 12 weeks. Surfaces should be checked to ensure that no surface alkalinity is present. Residual alkalinity should be neutralised with a mild phosphoric acid wash, rinsed with clean water, and checked afterwards to ensure that all alkalinity has been neutralised.

RELEASE AGENTS

Part of the tilt-up & precast construction technique is to use bondbreaker materials (release agents). These materials interfere with adhesion of paint systems and must be removed prior to painting. There are a wide variety of bondbreaker materials in use, and therefore care must be taken to ensure that the particular material in use is properly dealt with. **GranoTilt-Clean** is a water based, spray-on, rinse off cleaner that is formulated to remove bondbreaker materials on tilt-up construction prior to painting.

APPLICATION:

Use direct from container – do not thin. Flood the tilt surface with a heavy misting of **GranoTilt-Clean** and allow to penetrate into the panel before rinsing thoroughly with fresh, clean water via a high pressure spray unit to remove all traces of cleaner.

Penetration into the panel can be observed by a visual darkening of the tilt-up surface. Should this not occur, a second treatment of **GranoTilt-Clean** is required.

DO NOT allow the **GranoTilt-Clean** to dry before rinsing.

DRY TIME:

When temperature is around 25°C, a full 48 hours dry of the tilt-up concrete prior to the commencement of any painting is required. This time may be extended under cooler or more humid conditions.

PRIOR TO PAINTING:

Ensure concrete is a maximum of 15% wood equivalent moisture content before proceeding. A number of small, representative areas should be prepared and evaluated with a Cross Cut adhesion test to confirm adhesion prior to the commencement of full-scale works.

OTHER SURFACE CONTAMINANTS:

Surfaces must be clean and free dirt, grease, oil, dust, laitance, powdery mortar smears, or any other loose or friable matter. Where unpainted surfaces have been allowed to weather for an extended period, any mould or fungal growth must be killed and removed with SOLVER Line 4651 Sterilizing Wall-Wash used as directed.

PATCHING SURFACE IMPERFECTIONS:

After surfaces have been cleaned to free them from contaminants, surface imperfections should be filled to bring the surface to the standard required by the coating system. Fill significant imperfections with **GranoPatch Spackle** in applications up to 6mm thick. Fill minor surface imperfections with a skim coat of **GranoPatch Smooth** in applications up to 4mm thick. These compounds must be mixed with cement as per the manufacturer's recommendations. N.B. Do not fill expansion joints.

SELECTION OF COATING SYSTEMS:

Granosite Textured Coating Systems are highly suitable for finishing of tilt-up & precast structures. **GranoPrime S** should always be used as the recommended first coat of the system.

Where a conventional (non-textured) finish is desired, SOLVER Duraguard (Gloss, Satin, Low Sheen or Masonry Matt) is the product of choice. 2 or 3 coats should be applied directly over the **GranoPrime S**.

CHANGES SINCE LAST ISSUE:

Update Granosite products



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