



## **EXECUTION STATEMENT FOR INSTALLATION OF TILE IN A SWIMMING POOL**

### **A) THICK MORTAR BED**

**Product:** Ordinary portland cement – sand mix in a ratio of 1:3 , Laticrete 3642 diluted with potable water in a ratio of 1:4.

**Substrate:**

All surfaces should be structurally sound, clean and free of all dirt, oil, grease, curing compounds etc. Dry, dusty concrete surface or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. If the concrete or masonry surface is very old, apply a slurry bond coat of Laticrete filler powder mixed with Laticrete 73 prior to installation of mortar bed.

**Surface Preparation:**

- a) If a plaster/leveling render is applied, ensure that it is cured for at least 7 days to achieve proper strength before application of tile adhesive for installation of tile
- b) Ensure the substrate is clean and free from impurities like dust, dirt, debris, oil, grease, curing agents, loose plaster etc.
- c) Dampen the surface before application of thin set adhesive
- d) Clean the back of tile for any dust or coating.

**Application:**

- 1 Mix Laticrete 3642 concentrated liquid admix with potable water in the desired ratio ie 1:4 in a clean container.
- 2 Mix cement and clean well graded sand in a ratio of 1:3.
- 3 Add the liquid mix to the powder and mix slowly, adjust the mix to a semi dry consistency.
- 4 Place the mortar while the slurry bond coat is still wet and tacky.
- 5 Compact the surface of the mortar with flat trowel and ensure all voids are filled.
- 6 Level the mortar true and plumb to carry out the next stage of installation with a thin set adhesive.

7 Wait 12-24 hours for the mortar to set and cure before starting the water proofing.

## **B) WATERPROOFING MEMBRANE:**

**Product:** Laticrete 9237, water proof membrane

### **Surface Preparation:**

Surface to be waterproofed should be plumb and true to within 3mm in 3m. Rough or uneven masonry, concrete or mortar bed surfaces should be made smooth or leveled with Portland cement-sand mortar to provide a steel float finish. Surfaces should be clean and free from dirt, grease, concrete sealers or curing compounds. Dry or dusty surfaces must be dampened and swept off.

### **Application:**

1 First treat any coves or corners. Double application of fabric and liquid is required for all coves, corners, board joints and changes in plane.

2 Apply a liberal coat of Laticrete 9237 approximately 4"(10cm) on each side of corner or cove.

3 Fold the 6"(15cm) wide fabric in half and embed in the liquid coat, press firmly with a brush or roller to allow complete bleed through of liquid.

4 Seal the fabric with Top coat of Laticrete 9237.

5 Now apply a liberal coat(0.5mm-0.75mm) of Laticrete 9237 over the entire surface to be waterproofed, going back over the fabric reinforced areas.

6 Allow to dry the membrane for 2-3 hours.

7 When membrane is dry to touch, spread a second and top coat (0.5mm-0.75mm) of Laticrete 9237 over the entire surface including the fabric reinforced areas.

8 When the membrane is dry to touch, tiles can be installed using Laticrete Thin set adhesive fortified with latex.

### **Crack Suppression:**

The fabric used with the liquid 9237 can be used to treat hairline shrinkage cracks upto 3mm in concrete and cement plaster.

1Apply a liberal coat of Laticrete 9237 approximately 4"(10cm) on each side of crack.

2 Imbed the 6"(15cm) wide reinforcing fabric on the applied liquid and press firmly with brush or roller to allow complete bleed through of liquid.

3 Top coat the fabric with Laticrete 9237.

4 Tiles can be installed when the membrane is dry to touch.

### **C) TILE ADHESIVE**

**Laticrete 111 Filler Powder fortified with Laticrete 73 latex admix to form a Thin set adhesive.**

#### **Substrate:**

The surfaces to be covered with Ceramic Tile/Stone shall be sound and conform to good design, rigid, clean and free of dirt, oil, grease, curing compounds, form release agents or loose plaster and paint. For economy the surfaces should be level and true within :

Walls - 3mm in 2.5m

Floors - 1.5mm in 1.0m

#### **Mixing:**

The products can be mixed by hand or slow speed electric drill mixer (less than 300 rpm).

Pour Laticrete 73 latex admix in a clean container and then add the powder, Laticrete 111 Filler powder until the mixture becomes creamy and plastic. **Do Not Overmix.** Leave the mix to slake for 5-10 min and remix before use. Mix only sufficient for immediate need.

Proportion approximately 1 bag of Laticrete 111 with 5-6 ltrs of Laticrete 73. Adjust quantity of liquid to obtain proper consistency.

#### **Installation:**

Wet the surface and remove the excess water before applying the adhesive. Ensure the area is shaded from sunlight. The adhesive shall be applied with the flat side of the trowel using a scraping motion to work the material into good contact with the surface to be covered. Additional mortar is then applied with the notched edge of the trowel. When installing large tile/stone, rib/button/lug back tiles or sheet mounted ceramic/mosaic tiles, spread adhesive onto back of each tile in addition to trowelling material over surface to be tiled. Select proper type of notched trowel.

- a) Thin Tiles upto size 300 X 300 mm (1'X1'), use a square notched trowel of size 6mm X 6mm to provide a total thickness of 3mm
- b) Large Porcelain Tiles upto 450 X 450 mm with ribs, use a square notched trowel of size 6mm X 6mm and back butter the tiles with the same adhesive to a thickness of 1-1.5mm to provide a total thickness of 4.5mm
- c) Large Porcelain Tiles upto 600 X 600 mm (2'X2') with ribs, use a square notched trowel of size 6mm X 9mm and back butter the tiles with the same adhesive to a thickness of 1-1.5mm to provide a total thickness of 6mm

**The most important standard to keep in mind is to insure that the piece of Tile, paver or Stone is completely bedded in the mortar or adhesive with 100% coverage and a minimum of 3mm continuous thickness after Beat in.**

Rear face of tiles (especially Porcelain tiles) should be cleaned with damp sponge to clean all the dust. Do not saturate in water.

Excess mortar on adhesive shall be cleaned from the surface of the tiles with wet cloth or sponge while the mortar is fresh.

#### **D) EXPANSION AND CONTROL JOINTS:**

1 Existing joints in concrete must be carried through tile, marble and stone work and shall conform to architectural details.

2 Interior installations shall have movement joint spaced a maximum of 10m X 10m. For exterior areas it shall be spaced at 5m X 5m and shall conform to architectural details.

3 Follow the Tile Council of America detail EJ-171 Expansion joint.

#### **E) GROUTING**

When the tiles have set firm, spacers and bottom support can be removed.

#### **I Stainless, Chemical Resistant Epoxy Grout – Latapoxy Sp-100**

Latapoxy SP-100 is a stain free, chemical resistant epoxy grout. It is not stained by most of the food & beverages, cleaning chemicals, dilute acids and alkalies.

#### **Mixing & Application**

1 Before grouting, remove all dust & impurities from the tiles. Dampen the tiled surface with a sponge.

2 Pour the contents of Part A & Part B into a pail and mix together for 1 min.

- 3 Add the part C filler powder  $\frac{3}{4}$  of the content and mix together. Add remaining filler powder if required to achieve desired consistency.
- 4 Fill the joints using a rubber float.
- 5 Remove the excess grout, holding the float diagonally.
- 6 After 30-45 min of the application of the grout scrub the surface of the tile & joint with clean water and scrubber provided to remove any excess grout.
- 7 Draw a clean cloth and drag across the tile to remove any residue.
- 8 Next day clean the grout haze from the tile with clean water

## **II Cement based colour Grout**

Use Laticrete 600 series Unsanded Grout Filler (available in a range of colours) when grout joints are less than 3 mm wide and Laticrete 500 series Sanded Grout Filler (available in a range of colours) for joints 3mm – 12mm.

### **Mixing Ratio:**

Laticrete Unsanded grout : Latex 282

10kg bag : 3.75 ltr

Laticrete Sanded grout : Latex 282

10 kg bag : 1.75 ltr

### **Application:**

Mix the grout filler with 282 Latex Admix , mix only as much can be used in  $\frac{1}{2}$  hour or less. Clean up immediately before beginning the next mix.

When applying, the grout joints should be free of dirt, debris or tile spacers. Sponge or wipe dust/dirt of tile faces and remove water standing in joints. Pack joints full and free of voids with rubber grouting float. Remove excess grout from tile faces using edge of rubber float and diagonal strokes (at 45° angle to direction of joints). When the joints have set, use a moist sponge to remove excess grout from the tile and joint. Use minimal water for clean up. Final clean up to remove any grout haze should be carried out within the next 12 – 24 hours.

## **TECHNICAL SERVICES**

**NOTE:** LATICRETE Method Statements are provided for information purposes. The LATICRETE Product Data sheets supercede any information provided in the method statement.

**NOTE:** LATICRETE Product datasheets are subject to change without notice. For latest revision, check our website at [www.myklaticrete.com](http://www.myklaticrete.com)

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