

## METHOD STATEMENT FOR CERAMIC AND PORCELAIN TILES

### **Floor Finishes**

#### **Preparatory of Works**

- Ceramic and porcelain tiles type & color, mortar mix, glue, grout, shop drawings and method of application shall be approved by the consultant.
- Ensure that delivered materials from approved manufacturers and in original labelled packing.
- Mock up shall be arranged for wall and floor tiles at the location designated by the consultant for the final approval.
- Approved mock up and samples shall be available at site and the materials delivered to the site shall be checked with respect to the approved samples.
- Tiles of approved sizes shall be used for laying
- Ensure the MEP clearance obtained.
- Working area to be restricted for unauthorised entry.
- The area of substrate to be tiles shall be brushed clean and the finished floor level shall be established by means of dots.
- All traces of grease, oil, loose particles etc. must be removed.
- In wet areas check that approved water proofing is completed as per Manufacturer's instruction and tested for leakage.
- Ensure the laying of the tiles shall be as per the direction and pattern agreed with the consultant.
- Setting out of tiles shall be done the surveyor and approved by the consultant.
- Before laying tiles obtain approval of setting out by consultant. Provide symmetry about the center tiles of spaces or areas and adjust to minimize the tile cutting.
- Tiling should be started from the start point as fixed on the approved shop drawings.
- Lay out tile work so that tiles less than ½ full size do not occur and with minimum of cutting. Carefully grind edges of cut tiles. Ensure cut tiles are in corners and are equal on each wall faces.
- Tile layout on floors/walls shall follow the layout on floors/walls as per approved shop drawings

#### **Workmanship**

- **Preparation of floors:** cast in place concrete substrate (100 mm Min.) shall be sufficiently smooth and level such that when thin-set mortar to accept tiles is applied. No voids under the tiles occur. Grind off high spots and fill –in low spots as necessary to ensure no voids occurs.

- **Floor Water Proofing Application:**

- All toilets and pantries to receive water proofing.
  - Testing shall be before and after the installation of tiles.
  - Apply tile adhesive to the floors in the required thickness (4 mm) and Apply thin even coat of adhesive to the backs of the dry tiles. (Recommended Product – Litokol X12)
  - Tiles shall be placed according to level shown in drawing and shall be placed firmly with the help of rubber mallet.
  - Remove and reset for solid bearing tiles that give hollow sound when tapped with steel rod, after installation.
  - Tiles shall be laid level or enough falls in wet areas as may require.
  - Particular care shall be taken in wet areas to prevent low spot and pooling of water.
  - Tiles shall be neatly cut, grind rough on exposed edges around the floor drains & other obstructions.
  - Make provision of floor drains as per the approved shop drawings.
  - When installation has hardened sufficiently (after 48 hours) a thick grout of cement mixed with a minimum amount of water/approved grout shall be prepared and brushed over the floor until all the joints are thoroughly filled. (Recommended Grout – Litokol Starlike Defender)
  - Surplus materials shall be removed with a dry cloth.
- 
- **Control Joint:** Provide control joints 10mm minimum width in large tile areas at maximum of 9m in each direction and at the perimeter of wall. Do not saw-cut joints after installing tiles.
  - Movement joints shall be located as required and be carries through backing to structural wall. Partially fill with strips and finish flush with sealant to the manufacturer's recommendations.
  - The completed tile floor be kept traffic avoided in the area for at least 48 hours.
  - If traffic is unavoidable, board walkways shall be used for traffic to avoid damages to floors and to keep floor clean.
  - The joints width shall be 2 mm or as mentioned in the approved shop drawings.
  - Joints to be true to the line, continuous and without steps.
  - Apply 2 coats of sealer finish to flooring and stairs. Follow sealer finish manufacturer's instructions for the application.

## **METHOD STATEMENT FOR CERAMIC AND PORCELAIN TILES**

### **Wall Finishes**

#### **Preparatory of Works**

- Ceramic and porcelain tiles type & color, mortar mix, glue, grout, shop drawings and method of application shall be approved by the consultant.
- Ensure that delivered materials from approved manufacturers and in original labelled packing.
- Mock up shall be arranged for wall and floor tiles at the location designated by the consultant for the final approval.
- ITR shall be raised by the consultant's inspection and approval of the Mock up.
- Approved mock up and samples shall be available at site and the materials delivered to site shall be checked with respect to the approved samples.
- Ensure the MEP clearance obtained.
- All under laying installations shall be approved by the consultant prior to the tiling works.
- Working area to be restricted for unauthorised entry.
- The surface of which tiles are to be fixed shall be thoroughly dry before fixing commences and free from all defects.
- The area to be tiled shall be brushed clean and all traces of grease, oil, loose particles etc. must be removed.
- Ensure the laying of the tiles shall be as per the direction and pattern agreed with the consultant.
- Before laying tiles obtain approval of setting out by consultant. Provide symmetry about centre lines of spaces or areas and adjust to minimise tile cuttings.
- Lay out tile work so that tiles less than ½ full size do not occur and with minimum of cutting. Carefully grind edges of cut tiles. Ensure cut tiles are in corners and are equal on each wall faces.
- Tile layout on floors/walls shall follow the layout on floors/walls as per approved shop drawings.

#### **Workmanship**

- For concrete block walls and concrete walls to be finished with tile, apply a levelling coat of plaster minimum 12mm thick, sufficient to cover the unevenness of the substrate and to make walls true vertical.
- Plaster shall be finished rough in order to have strong key for tiling works.
- Plaster curing period shall be completed before start of tiling work
- To ensure rows of tiles are truly horizontal, a level line shall be established to position the starting course.

- Tiles of specified and approved sizes shall be fixed to wall surfaces by approved adhesive. (Recommended Product – Litokol X12)
- Mixing of adhesive shall be strictly followed in accordance with manufacturer's recommendations.
- Adhesive shall be used within the 2 hours of mixing at normal temperatures or within the pot life of the mix whichever is achieved earlier.
- Material shall not be used after initial set has taken place.
- **Thin Bed Adhesive- Walls:** Apply floated coat of adhesive to dry background of approximately 1 M2 and comb the surface with the recommended solid bed trowel. Apply thin even coat of adhesive to the backs of the dry tiles. Press Tiles onto bedding with twisting/sliding action to give finished bed thickness of not more than 4 mm.
- Tamp the tiles with rubber mallet to obtain required adhesion and level.
- Tiles shall be laid with the required spacing and spacers (2mm Minimum) shall be used to align horizontal and vertical joints.
- Lay tile to pattern in accordance with shop drawings. Very pattern is uninterrupted through openings.
- Establish lined of border where applicable
- Excessive mix/adhesive shall be removed with a damp cloth before the material has set out.
- The vertical joint shall be maintained plumb for the entire through level and plane by uniformly applied pressure.
- Joint in placed wall tiles and fittings after edges of the tiles have been thoroughly wet (After 48 hours later). It shall be grouted with neat white or coloured approved gout.
- Grout shall be applied to the spaced between the tiles using a sponge or a small piece of the soft cloth. (Recommended Grout – Litokol Starlike Defender)
- Ensure the joints are 2 mm thick (or the depth of the tile is less.) and are free from dust and debris.
- Apply grout and fill joints completely until entire depth of tiles, tool to an approved profile, clean off surface and leave free blemishes.
- Rub wall tiling with a dry cloth when joints are hard
- Keep expansion/ contraction and control joints free of mortal or grout.
- **Control Joint:** Provide control joints 6mm minimum width in large tile areas at maximum of 9 m in each direction and at the perimeter of wall. Do not saw-cut joints after installing tiles.
- Movement joints shall be located as required and be carries through backing to structural wall. Partially fill with strips and finish flush with sealant to the manufacturer's recommendations.
- Tiling shall be protected from heat and inclement weather until jointing has completely set.