

### PREPARATION

#### **CONCRETE**

Ensure all areas are clean, dry and grease free, sand or grind to remove laitence from new concrete. Grind old concrete to remove all contaminants. ACID ETCH may be used instead of grinding on light contaminations.

#### **WOOD**

When working onto a wooden floor it is important that all joints are securely **screwed** at 6" centers to ensure there is no movement at all. All joints should be filled and sealed with Q/FLEX prior to the application of the FLAKE system. If joints move there is a possibility of a crack forming in the resin.

#### **TILES, PAINTED OR SMOOTH SURFACES**

QUATTRO normally recommend that tiles are lifted and painted or smooth surfaces are textured and the substrate prepared, this is not always possible so a primer has been designed to achieve a good key to these surfaces. AQUACOAT SPECIAL PRIMER is a two pack epoxy that must be used to ensure good adhesion to these surfaces. Where tiles are covered it will leave a seamless surface but there is always the possibility that the joints may mirror through. Tape anyskirtings, base units, machines or surrounding floor finishes to prevent contamination of resin during application, ensure other entrances are blocked to exclude accidental traffic during curing.

**N.B.** In cold conditions resins take longer to cure, it is advisable to aid application and curing by heating the room . Water and moisture is the enemy of all resin systems during application, all efforts should be made to keep dry during that period.

### APPLICATION

There is a choice of bases that can be used for the FLAKE system, the base will have been determined at the point of sale dependant upon your needs, conditions and cost. The coated base systems comprise of one of the following two pack resin systems Q/TECT or Q/SEAL S.F.S ( both solvent free epoxies) or Q/DECK (a solvent free urethane) Or Elastic single pack, One or two coats may have been recommended dependant on the type and state of the substrate. LEVDEC self levelling epoxy screed is the other option and this is used in conjunction with LEVDEC PRIMER.

**COATED BASES** Locate Q/TECT or SFS or Q/DECK as supplied, each unit consists of a resin component and a hardener. Mix all of the hardener into the resin unit and stir thoroughly preferably with a slow speed drill or paddle. If they are mixed by hand we must emphasise that it is well mixed getting the implement into all the corners of the bucket. Elastect does not require mixing and can be applied direct. Apply 1 or 2 coats of the mixed material as required using a medium pile lambswool roller, only using a brush to cut into the edges or less accessible areas. (once mixed the material starts its curing process, so it is important to apply as quickly as possible) . The second coat can be applied once the first has cured, approx. 12 hours with TECT & SFS or 5 hours with DECK or Elastect.

Whilst the final base coat is still wet cast the MOSAIC FLAKES onto this base, lightly and sporadic where a SEMI FLAKE finish is required or completely covered where a FULL FLAKE is desired (see photos). This action is taken in conjunction with the application of the base coat ensuring that the leading edge is kept clear of FLAKES until the area is complete. Leave overnight to cure.

#### **TROWEL BASE**

Locate the LEVDEC 3 pack self levelling epoxy resin . There is a resin component a hardener component and a bag of fine aggregate,. Mix the hardener unit into the resin and stir thoroughly with a slow speed drill and paddle, once mixed add in the bag of aggregate, stir in until fully mixed. Pour the mixed material

onto the floor and spread to the required depth with a metal float (LEVDEC = 7 square mts per 30 kg unit). Run over the LEVDEC with a QUATTRO SPIKED ROLLER to remove entrapped air or trowel marks, cast the FLAKES onto the surface sporadically to achieve a SEMI FLAKE finish or completely to achieve a FULL FLAKE (see photos). If the base grins through on a full flake apply more FLAKES until covered. Ensure that the wet edge is kept clear off flakes until complete. leave overnight to cure.

### SEMI-FLAKE FLOOR AND WALLS

### FULL FLAKE SHOWING NO BASE COAT

#### SHOWING MOST OF BASE COLOUR

#### *Tips*

1. *When applying SEMI-FLAKE scatter very few at a time to ensure an even pattern.*
2. *Measure areas first to ensure correct coverage of resins.*
3. *Keep warm.*
4. *Keep water and pets away during application and cure.*

#### FULL FLAKE- SEALERS

Once cured sweep off excess flakes and sand the surface with a orbital sander, the amount of sanding determines the texture of the finish but do not oversand as this will expose the base coat. Once sanded, sweep off and vacuum all residues. Locate Q/TECT CLEAR resin and hardener mix thoroughly and apply by roller at a rate of 8 square mts per 2.5 kg unit. Only use a brush to cut in. Leave overnight to cure. Once cured check surface for sharp edges, sand off lightly removing any residues.

Finally apply 1 coat of Q/TYLE DD 1 CLEAR at a rate of 8 square metres per litre. Leave overnight to cure.

#### SEMI FLAKE SEALERS

Once cured check as full flake sealers and then apply 2 coats of Q/TYLE DD 1 CLEAR applying second coat within 24 hours of the first.

#### MAINTENANCE

QUATTRO FLAKE & SEMI FLAKE provides a hard wearing surface, but treated badly it may scratch. Usual cleaning will keep it looking good throughout its long life. The surface will accept most types of proprietary cleaners and de-greasers. In case of heavy wear resin sealers can be applied later to prolong its life.