Waterproofing & Tiling Swimming Pools

Materials

- Primax (two-pack primer), Epecrete (three-pack, epoxy dampproofing membrane), Liquid Flash 2 (two-pack, acrylic, waterproofing membrane), Elastacrete (acrylic, flexible additive for Kemgrip), Kemgrip Floor & Wall or Kemgrip Super (cement-based adhesive), Hydrabond (one-pack, white adhesive)
- Ultima (two-pack, white, flexible, premium tile adhesive), Epegrout Ultra (three-pack epoxy grout), Kemgroat Sanded (cement-based grout), Primebond (acrylic grout additive) and Kemcrete (acrylic bonding additive).

Surface Preparation

All surfaces must be clean and structurally sound and free of grease, dust, coatings, curing compounds and other contaminants. New concrete must have cured for 28 days or more. Render to cure for 7 days before tiling.

Workmanship

Apply products in accordance with the manufacturers written instructions and good trade practice. Do not apply products in direct sunlight or hot windy conditions. Apply in temperatures between 10-30°C.

Application

Waterproof Membrane

Apply two coats of Liquid Flash 2 to a final thickness of 1.5mm onto the prepared concrete, primed with Primax (brush applied).

Screed if required

Should a screed be required, use a 1:3 cement; sand mortar mixed with 1:3 Kemcrete; water mixture. Select an adhesive system to suit the substrate movement or flexibility requirements;

Firm

Fixing tiles over sound concrete (no waterproofing)
- High bond strength – Kemgrip Super 20kg mixed with 1 litre Kemcrete / 3 litres water.

Flexible

Fixing tiles over membrane
- Flexible – Kemgrip Floor & Wall mixed with Elastacrete (do not add water), Hydrabond or Ultima.

Grouting

Mix Primebond with Kemgroat Sanded or use Epegrout Ultra.

Curing

Allow a minimum of 7 days @ 23°C @ 50% relative humidity, before filling the pool. Allow longer in cooler conditions.

Expansion/Movement Joints

Contact Construction Chemicals for further help.

Precautions

- Swimming pool and immersed applications must be tiled to protect the adhesive from pool chemicals and chemical balance problems. Chemical dosing of pools must not exceed the recommendations of AS3633.
- Do not waterproof inground concrete pools subject to negative or hydrostatic water back pressure.

Water Balance

The chemical balance of pool water is critical to avoid pool maintenance problems, and for water health and safety. A correct balance of pH, effect of pH on chlorine, Total Alkalinity (TA), pH connection to Total Alkalinity, and calcium hardness must be achieved. Water testing must be in accordance with AS3633 under the supervision of an accredited pool testing professional.

Materials (continued)

- Ceramic tiles
- Concrete
- Block
- Cement render

Kemgroat Sanded mixed with Primebond or use Epegrout Ultra

Adhesive:
- Kemgrip Floor & Wall mixed with Elastacrete, Hydrabond or Ultima
- Liquid Flash 2, applied in two coats to obtain a 1.5mm dry film thickness
- Epecrete or Primax

Contact Information:
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The information contained in this technical publication is based on our current knowledge and experience and is provided as a guide only. In view of the many factors that may affect application it is the user’s sole responsibility to ensure suitability for a specific purpose.

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