

# Waterproofing & Tiling Swimming Pools

## Reinforced concrete, seamless, inground swimming pools

### Priming

Packaging

Mixing



### Application



### Waterproofing

Packaging

Mixing



### Application



### Fixing Tiles

Packaging

Mixing



Packaging

Mixing



### Application



### Grouting

Packaging

Mixing



### Application



### Substrates

Concrete

## 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), **Hydralite** (one-pack, white or grey, lightweight adhesive), **Mosaicbond** (flexible, glass mosaic adhesive/grout), **Ultima** (two-pack, white, flexible, premium tile adhesive), **Epegroult Ultra** (three-pack epoxy grout), **Kemgroult 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 product by an experienced pool tiler.** 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). **Do not use acids in cleanup water.**

### 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**, **Hydralite**, **Mosaicbond** or **Ultima**.

## Grouting

Mix **Primebond** with **Kemgroult Sanded** or use **Epegroult 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

- **Suitable for experienced tradespeople only.**
- 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.
- For use only on poured-in-place solid concrete, reinforced, seamless pools.
- Do not use moisture sensitive tiles or stone in swimming pools.
- Ensure that no more than 10% of the back of the sheet of mesh mounted mosaic is covered by the substance used to adhere the glass mosaic to the mesh.
- Glass mosaics must only be fixed with **Hydrabond**, **Hydralite**, **Mosaicbond** or **Ultima**.
- If crystalline sealers, curing compounds or other coatings are present, full removal is recommended prior to commencement of waterproofing or tiling. Onsite adhesion testing to confirm suitability of substrate is recommended before proceeding.

## 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.

