



## 4.05 XPERT Seal 2K

Acrylic Modified, 2-part, cementitious based water proof coating

### PRODUCT DESCRIPTION

XPERT Seal 2K waterproof coating is a two-component waterproof system, consisting of a cementitious powder and a specially formulated acrylic polymer solution. When XPERT Seal 2K powder mixed with XPERT Seal 2K solution to a lump-free consistency it provides a waterproof coating that is easily applied by brush or spray to concrete and masonry above and below ground level.

### USES

- Tanking of basements
- Water reservoirs
- Tunnels
- Swimming pools
- Lift pits
- Concrete pipes
- Fish ponds, tanks, etc
- Shower walls and floors prior to tiling

### FEATURES AND BENEFITS

- Resists positive and negative water pressure
- Labor saving-simple and rapid application
- Water vapor permeable
- Allows substrate to dry out
- Can be applied to damp substrates
- Can be applied by brush or spray
- Bonds with concrete and masonry, becoming an integral part of the substrate thereby overcoming hydrostatic pressure
- Non-toxic, suitable for contact with potable water
- Solvent-free

### PACKAGING

XPERT Seal 2K is available in 16 kg double pack, 11kg XPERT Seal 2K powder and a pack of 5kg/Lit bottle solution.

### STORAGE

All materials should be stored under cover, clear of the ground and stacked not more than 6 bags high. Protect the materials from all sources of moisture and frost.

### TECHNICAL PROPERTIES

CATEGORY	PARAMETERS
Pot life at 20°C	1 hour
Pot life at 40°C	30 minutes
Wet density	1800 kg/m <sup>3</sup>
Compressive strength (28 days)	55.0 N/mm <sup>2</sup>
Tensile strength (28 days)	3.7 N/mm <sup>2</sup>
Flexural strength (28 days)	7.6 N/mm <sup>2</sup>
Adhesive strength (28 days)	2.5 N/mm <sup>2</sup>
Water vapor permeability	86-120
Maximum particle size	0.8 mm
Resistance to negative pressure	4 bars

**Colors:** XPERT Seal 2K system is available in grey & white.

### APPLICATION PROCEDURE

Surfaces to be treated must be completely clean, structurally sound and mechanically keyed. All surface coatings, defective renders, foreign matter, formwork treatments and other contaminants that may affect the bond adversely should be removed.

**Surface Preparation:** Surfaces should be prepared by abrasive blasting or high-pressure water treatment. Do not use scabbling or any other aggressive method. Finally, the surface should be washed with clean water to remove all dust and loose particles.

**MIXING:** XPERT Seal 2K is supplied in pre measured units and should be mixed on site utilizing clean containers.

**Power Mixing:** Blend the powder into the mixing liquid. Use a suitable mixing paddle in a slow speed drill (400-600rpm). Let the mix stand for 10 minutes to allow full saturation to take place.

**Hand Mixing:** Add the liquid to the powder whilst stirring with a trowel or paddle.

**Consistency:** The material should be mixed to a thick, creamy, lump-free consistency that will just support the weight of the stiff brush. Mixed material must be used within 45 minutes at 20°C. Do not re-temper the mix.

### APPLICATION

Always apply to a pre-dampened surface using a stiff-fibred brush. High suction substrates will require more dampening than dense substrates.

**First Coat:** Apply a first coat of XPERT Seal 2K at a minimum rate of 1.5 kg.m<sup>2</sup>. This coat should be brushed well into the surface. Care should be taken not to spread the material too thin. Finish in one direction only for a neat appearance. If the brush begins to drag during application, dampen the surface again. Allow at least an overnight cure before applying a second coat. Apply the second coat when the first coat is sound enough to receive it without damage.

**Second Coat:** Apply the second coat at a minimum rate of 1kg/m<sup>2</sup>. This can be applied by brush, broom or spray. If their condensation on the wall, remove the excess moisture with a sponge. If the wall is too dry, dampen it with a sponge or fog-spray. The second coat may be a different color to aid proper coverage, for example, white on grey. If the second coat is to be the final finish, it may be textured with a brush or sponge floated to give a uniform surface if plaster or render is to be applied then finish the XPERT Seal 2K with horizontal brush strikes to give more grip. In most situations, the plaster or render can be applied the next day. If plastering is likely to be delayed for some time, the XPERT Seal 2K should be sand dashed immediately after application to aid adhesion. Never use a gypsum-based plaster or low permeable paint to cover XPERT Seal 2K in a tanking application.

**Curing:** Fog-spray all application with clean water after the initial set has taken place for as long as practicable. In cold, humid or unventilated areas, it may be necessary to leave the application for a longer curing period or to introduce forced air movement.

### COVERAGE

Coverage is influenced by the roughness of substrate. The following may be used as a guide,

- 1st Coat 1.5 Coverage kg/m<sup>2</sup>
- 2nd Coat 1.0 Coverage kg/m<sup>2</sup>

On rough surfaces, the quantities required may increase by up to 50%.

### SHELF LIFE

Rotate stock in order not to exceed the shelf life of 12 months.