

# Bond Key

## Scratch Coat

### DESCRIPTION

ACS BondKey is a pre-mixed slurry bond coat, containing specifically designed polymer additives, specialised cements and various graded sands and aggregates.

ACS BondKey is specifically designed to ensure a superior bond when applying cement based renders to new concrete pools and pool renovations.

### FEATURES AND BENEFITS

- Pre-mixed. Simply add water.
- Excellent adhesion to concrete, marble plaster, Quartzon, pebble and other cementitious substrates.
- Contains specialised blends of fine sands and larger aggregates for high structural strength and a superior mechanical key.
- Addition of specialised polymers enhance chemical bonding, flexibility, density and structural strength.
- Environmentally friendly.

### RECOMMENDED SUBSTRATES

- New concrete pool shells.
- Renovated concrete pool shells.
- Cementitious renders, such as Quartzon, marble plaster or pebbles.

### PACKAGING

ACS BondKey is available in 20kg plastic lined paper bags.

### PERFORMANCE PROPERTIES

Appearance	Uniform slurry paste
Colour	White
Mixing Ratio	5-5.4litres of water to 20kg bag
Pot Life	30 mins @ 25°C
Compressive Strength	30 mpa @ 28 days
Yield volume	Approx 12litres per 20kg bag

### COVERAGE RATES

A 20kg bag of ACS BondKey will cover approx 10m<sup>2</sup> of wall area @ 1-2mm thickness.

### SUBSTRATE PREPARATION

- ACS BondKey must be applied to a structurally sound, clean, cementitious substrate.
- Application over previous cementitious render finishes is acceptable provided they form a clean, sound substrate, and are well bonded to the concrete shell.
- All drummy spots and delaminated render must be removed, and patched with a cementitious render mix.
- All weepers must be cored and sealed with a mortar such as Drizoro Max-Plug.
- Any paint, epoxy or other non cementitious coatings or membranes must be mechanically removed.
- All surfaces must be clean and free from dirt, grease, oil or other surface contaminants.
- A light acid wash (1 part acid:9 parts water) is recommended to 'open up' the cement substrate. Followed by a high pressure water blast to remove any surface residue prior to application of Bond & Key

### MIXING

1. Add 5-5.4 litres of clean potable water to each 20kg bag of ACS BondKey.
2. Mix for three minutes to allow the polymer additives to activate
3. Re-mix render for one minute whilst adjusting consistency with the addition of water or render as required.

### PLACING

1. Dampen the entire pool shell using a fine mist spray. Continue wetting until water begins to run down the walls.

2. Mop up excess surface water. Ensure the walls stay moist throughout the entire process, without excess surface water run off.
3. Drop entire contents of mixed product into the floor area at the bottom of the pool.
4. Using a stiff broom, brush or stipple gun, evenly spread the slurry mix up the walls and around the floor area to achieve 1-2mm coverage.
5. Work the material into the substrate surface to fill voids and eliminate pin holing.
6. Ensure full and complete coverage of the entire area to be rendered.
7. We recommend that as application progresses, the coating depth be tested at random points with a wet film gauge/comb.
8. While still wet, use a stiff broom to cross hatch the surface of the BondKey Scratch Coat to create a rough basket weave pattern to provide a good mechanical key.

## CLEAN UP

Wash all equipment in water or water/detergent immediately on completion of application and mixing.

## DRYING TIME

The top render coat can be applied immediately (wet on wet), OR after a minimum 24 hours drying time. If applying 'wet on wet' do not allow BondKey to become 'touch dry' or skin over as adhesion will be poor.

The final cementitious render coat must be applied within a maximum of seven days of the BondKey application to ensure good chemical adhesion.

## PRECAUTIONS

- As ACS BondKey is cementitious, some individuals may experience a skin reaction.
- These individuals should wear personal protection equipment (PPE). Refer to the product Material Safety Data Sheet for more information.

- Discard any material that has exceeded the pot life or working time of the product.
- Do not apply over any substrates that have been previously treated or coated with PVA concrete bonding agents or acrylic coatings.
- These areas must be mechanically removed by grinding or shot blasting to produce a contamination free surface.

## STORAGE

Under Tile Render should be stored in a cool dry environment on a timber pallet base. Avoid storing in areas of high humidity or excess moisture as this may affect the contents and shorten shelf-life. The product has a shelf life of up to 12 months when stored correctly.

## HEALTH AND SAFETY

Under Tile Render contains Portland Cement and as such, all due precautions are to be taken when handling cement based products.

For further information consult the **Material Safety Data Sheet** and read the product label carefully before use. **Material Safety Data Sheets** are available by phoning **1800 077 744**.

**Please Note:-** The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.

To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexperienced or negligent application, or ordinary wear and tear.

Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not River Sands), is responsible for procedures relating to the application of the product.



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