

## S1 White Slow Set Flexible Adhesive, 20kg



### DESCRIPTION:

StoneFix White Slow Set Flexible S1 Adhesive is a professional and highly flexible wall and floor tile adhesive. Designed for fully vitrified, high density tiles such as porcelain, ceramics and mosaics. Also suitable for natural stone such as travertine and slate.

### FEATURES:

- Natural Stone
- Concrete / Timber
- Internal / External
- Eco Friendly
- Porcelain / Ceramic / Mosaics
- Underfloor Heating
- Swimming Pools / Wet Areas
- Anti-stain / Watermark Proof



### CONTACT DETAILS:

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## PLEASE NOTE

DO NOT apply if frost is forecast within 24 hours, in wet conditions, in temperatures below 5°C or above 25°C, to areas in direct sunlight or to substrates that are hot.

Never add water or fresh adhesive and or powder to the adhesive mix which has already started to set.

## PREPARATION

Surfaces, including existing tiles, must be clean sound and strong enough to support the weight of the tiles and the adhesive. Curing compounds, oil stains, wax residues, laitance and other contaminants must be removed. StoneFix White Slow Set Flexible S1 Adhesive can absorb minor surface irregularities provided that the bed thickness does not exceed 20mm. Gypsum based substrates, aerated concrete and interior asphalt should be primed with StoneFix Acrylic Primer.

## PRIMING

Porous substrates must be primed with StoneFix Acrylic Primer.

Non porous substrates such as ceramics, should be primed using a slurry coat of StoneFix White Slow Set Flexible S1 Adhesive and Stonefix Acrylic Primer. The slurry coat should be one part powder to one part liquid by volume. Apply thinly with a brush and allow to dry.

## Existing Glazed, Unglazed Tiles, Terrazzo, and Quarry Tiles

Apply slurry coat: 1 part adhesive to 1 part StoneFix Acrylic Primer, apply a thin coat with a brush and allow to dry.

## Gypsum Plasters

The surface should be roughened up using a wire brush or other abrasive tool as this will remove the surface laitance. Then apply 2 neat coats of StoneFix Acrylic Primer.

## Anhydrite Floor Screeds

The substrate must not leach moisture. Anhydrite screeds must not have a moisture content greater than 0.5% or 75% relative humidity (RH) is required. This can easily be tested with a hygrometer. Once the screed has dried it is essential that surface laitance is removed. This is achieved by scabbling, followed by vacuum cleaning to remove any dust, then followed by 2-4 neat coats of StoneFix Acrylic Primer.

## Plaster Boards

Skimming is not required, ensure boards are dry, securely fixed and rigid. Prime with 2 coats of StoneFix Acrylic Primer diluted 1:1 with clean water.

## Timber Floors

The surface should be prepared to provide a rigid and secure base without deflection. The face, reverse and edges of the boards must be primed with StoneFix Acrylic Primer diluted 1:1 with clean water, to prevent the ingress of ambient moisture.

## MIXING

Mix 20kg of StoneFix White Slow Set Flexible S1 Adhesive with approximately 5 litres of cold clean water until a smooth creamy consistency is achieved using a suitable drill with whisk attachment, mix for 2 minutes, allow standing for 2 minutes then re-mix. This process allows the polymer additives to dissolve and activate.

## APPLICATION

The mixed adhesive is applied to the prepared surface with a trowel and then combed through with a suitably sized notched trowel in straight ribs to create a ribbed adhesive bed. The tiles should be pressed into place with a twisting and sliding action to achieve full adhesive to tile transfer.

For tiling to walls in dry internal locations the adhesive contact should be at least 65% of the back of the tile. When tiling to floors and all external situations, or in wet areas such as showers and swimming pools, solid bed fixing should be achieved. To achieve a solid bed usually requires the tiles to be buttered immediately prior to placing into the ribbed bed so no voids are left beneath the tiles. The size of the notched trowel chosen depends on the size of the tile, the surface being tiled, the profile on the back of the tile and the degree of coverage area required.

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Remove and inspect a tile occasionally to check that adequate bedding is being achieved. Expansion joints must be provided according to the relevant Part of BS 5385. Test open time by touching the adhesive bed with a finger; if adhesive transfers to the finger a safe bond is assured if not, the adhesive must be removed and replaced with fresh material. Never add water or powder to a mix that has begun to set. Do not apply at substrate temperatures below 5°C or in conditions of extreme heat. Exterior installations must be protected from direct sunlight, wind or rain.

## ON WOODEN FLOORS

The surface should be prepared to provide a rigid and secure base without deflection and suitable to support the intended weight. Tongue and groove / chipboard must be over-boarded with exterior grade plywood which is at least 18mm thick and given time to find equilibrium with its surroundings. Plywood boards must be 18mm thick and all joints must be supported. All must be screwed down at 300mm centres. The face, reverse and edges of the boards must be primed with StoneFix Acrylic Primer diluted 1:1 with clean water, to prevent the ingress of ambient moisture.

## COVERAGE

1kg of the mixed material applied will cover approximately:

- 0.3m<sup>2</sup> using 8mm notched trowel
- 0.5m<sup>2</sup> using 6mm notched trowel
- 0.75m<sup>2</sup> using 4mm notched trowel

Coverage is dependent on the application technique, substrate and the type of tiles used and these figures are therefore only a guide.

## TECHNICAL DATA

Conformity:	Conforms to the requirements of BS EN 12004 / 12002 C2TE S1	
Tensile strength:	6 hrs	>0.50N/mm <sup>2</sup>
	12 hrs	>0.75N/mm <sup>2</sup>
	24 hrs	>1.00N/mm <sup>2</sup>
Transverse deformation:	Classification S1 (deformation greater than or equal to 2.5mm and less than 5mm)	
Application temperature:	5°C to 25°C	
Service temperature range:	-20°C to +80°C	
Bed thickness:	Up to 20mm	
Mixing ratio:	5 litres of water to 20kg powder	
Open time:	3 hrs at 20°C	
Set time:	12 hrs at 20°C	
Ready for grouting:	12 hrs at 20°C	
Fully load bearing:	72 hrs at 20°C	
Shelf life:	12 months in cool dry area	
Sizes:	20kg	

## Ecotek

Ecotek technology has been developed as part of our commitment to the environment, in particular the use of sustainable products within our manufactured materials.

This technology uses the highest quality pure plate clear recycled glass and offers the following advantages:

- Mechanically improves the workability of the product.
- Compatible with white / light coloured cements.
- Less absorption of water, therefore improves structural strength and performance of the product.
- Non-crystalline nature of the glass improves its waterproofing properties and is non-toxic.

## PACKAGING & STORAGE

StoneFix White Slow Set Flexible S1 Adhesive is supplied in 20kg heavy duty clay coated sacks; palletised (56) bags and shrink wrapped. When stored unopened in a dry place at temperatures above 5°C, shelf life is 12 months from date of manufacture.

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## **HEALTH & SAFETY INSTRUCTIONS**

- Contains Portland Cement.
- Irritating to skin.
- Risk of serious damage to eyes.
- Keep out of reach of children.
- Avoid contact with skin and eyes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
- Wear suitable gloves and eye / face protection.
- If swallowed, seek medical advice immediately and show this container or label.

For further information, please request the material safety data sheet for this product.

## **QUALITY CONTROL**

All StoneFix products are factory blended, tested and packaged to quality control procedure in accordance with BS EN ISO 9001 series.

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