

## FLOOR SELF-LEVELLING

FOR INTERNAL AND EXTERNAL APPLICATIONS

### DESCRIPTION

Self-Leveller is an eco-friendly, cost effective building solution that offers our customers a self-compacting, self-levelling, flowing product which can be placed at up to 10 times faster than a traditional screed, generating significant labour and time cost-savings.

### USES:

- Repair dry areas of structurally sound concrete subfloors
- Used as a subfloor underlayment prior to installation of carpet, tiles or other floor covering systems.
- Not suitable for use in permanently wet areas of immersion.
- Ideal for fixing thick and thin bed adhesives.
- Apply to concrete, terrazzo and ceramic tiles from feather edge to 50mm

### TEST DATA:

<b>Properties:</b>	
<b>Pot Life:</b>	~ 10 mins
<b>Initial Set:</b>	~ 1.5 hrs
<b>Final Set Time:</b>	~ 2.0 hrs
<b>Reflow Time:</b>	~ 10 mins
<b>Foot Trafficable:</b>	2 – 3 hrs
<b>Ready to Receive Tiles:</b>	~ 4 hrs
<b>Ready to Receive Carpet:</b>	~ 16 – 24 hrs
<b>Ready to Receive Vinyl:</b>	~ 24 – 36 hrs

### SURFACE PREPARATION:

- Surfaces, must be dry, structurally sound, clean, free of dust, dirt, wax, oil, grease, asphalt, mastic, latex compounds, adhesives, paint, gypsum based products, and other contaminants.
- All concrete sub-floors must be fully cured and dry, (maximum moisture content 5.5% or 70% humidity). They must be free of laitance, loose or deteriorated concrete, curing or form release agents, other contaminants and have a wood float finish.
- Non-porous surfaces, such as power troweled or steel floated concrete, must be primed. Alternatively, they can be acid etched or mechanically abraded.
- Deeply contaminated substrates must be abraded to a clean, sound surface or some substrates can be prepared with the use of a bonding coat for contaminated surfaces.
- When in doubt about the surface preparation or priming, a 1m<sup>2</sup> test area is recommended.
- A thorough repeated sweeping with a hard broom, followed by mopping with clean water to remove all contaminants is essential.



## SURFACE PRIMING:

- Priming is crucial prior to the application of Self-Leveller. It is designed to improve adhesion and greatly reduce pin holing in the finished floor.
- Under hot, windy conditions (Temp above 30°C), it is essential to wet down any concrete slabs with clean water prior to priming, so that the primer does not flash dry. After wetting down the floor, do not allow the water to pool or pond on the surface. The substrate should appear matt, with no signs of glistening water evident prior to application of the primer.
- **Helicopter or steel troweled finish concrete:** Prime with Super Prime applied with a hard broom or brush to penetrate into the substrate.
- **Terrazzo, ceramic tile or non-porous surfaces:** Primer applied with a hard broom or brush, working well into the surface.
- **Damp concrete/difficult to adhere to substrates:** Apply with a brush to damp-proof the floor and improve adhesion.
- **Test areas:** Test areas should be performed in all cases, to assure the suitability of the product for the intended use. This should include the floor finishing/covering.

## MIXING INSTRUCTIONS:

- Electric stirring is required as it produces a much smoother mix. Concrete mixers or hand mixing are not suitable methods.
- Add approximately 4 – 4.5L of drinkable water to a clean bucket, and then slowly add the 20kg bag of Self-Leveller. Mix for no less than 2 minutes, and long enough to provide a smooth, lump free, flowable blend. If foaming and streakiness appear on top of the mixture, it is over-watered, and should not be placed on the substrate.
- For large areas requiring fills between 25 and 100mm, add washed, surface dry, graded gravel to the mix. If the gravel is 3 to 8mm, add 10kg of gravel per bag of Self-Leveller. If the gravel is 8 to 12mm, add 20kg of gravel per bag of Self-Leveller. Mix the Self-Leveller first, and then add the dry aggregate to the mixed material. Reduce the water required if the aggregate is damp. The addition of aggregate will severely reduce material flowability. *It is very important not to add more than the quantities of aggregate specified above.* A subsequent smoothing layer may be required, if aggregate is added to the mix.
- If pumping, mix in an appropriate pre-pump mixer. Do not mix more material than can be used in 10 minutes. *Mix speeds must not be too high; otherwise they will cause aeration.*
- Clean mixers and pumps thoroughly after each batch to avoid material build up.
- **Level Floor Standard** can be applied feather edged to 50mm. Over 20mm add up to 30% dried, washed, sharp coarse sand or fine aggregate, depending on the thickness required.

## APPLICATION TECHNIQUES:

- Pump or hand pour Self-Leveller on to the primed surface. Move it into approximate position with an underlayment spreader, and allow the material to seek its own level.
- Place Self-Leveller soon after mixing. It will achieve initial set in approximately 2 hours, and may be walked on in approximately 2 - 3 hours.
- Self-Leveller must cure at least 4 hours before tiling; at least 16 – 24 hours before carpeting and at least 24 – 36 hours before laying vinyl. Although Self-Leveller can be used externally, it is important to protect the product during placement and whilst curing from direct sunlight and winds. This is to prevent flash set / cure and desiccation (excessive moisture loss). This is particularly important when laying thicknesses in excess of 10mm.



- When additional thickness is required, Self-Leveller may be layered up to 15mm without aggregate to provide additional depth. The additional layer may be applied directly over the surface as soon as it will support foot traffic. A primer must be used if more than 24 hours passes before the new material is applied.
- Apply when the temperature is 5-30°C, do not apply in direct sunlight as this can cause the surface to crack

## COVERAGE:

One 20kg bag of Self-Leveller will cover approximately 12m<sup>2</sup> at 1mm thickness.

## CLEAN-UP INSTRUCTIONS:

- Clean mixing and application equipment with water immediately following use.
- Remove splatter or spills with water before material sets.
- Self-Leveller contains cementitious materials, and if allowed to dry, removal becomes extremely difficult.

## PRECAUTIONS:

- Do not use Self-Leveller over a slab with a high moisture content or that is subject to rising damp, unless a moisture barrier is used prior.
- Ensure all surface preparation and priming instructions are followed precisely.
- Construction joints in the sub-floor must be detailed through Self-Leveller to prevent cracking.
- Self-Leveller should not be over-watered, over-mixed, or re mixed with additional water. Any material over 10 minutes old should be discarded and not used.
- Do not add cement, lime, gypsum, plaster, bonding agents, aggregates or other materials except where specified on this brochure.
- Do not mix or apply Self-Leveller when temperatures are below 5°C or above 35°C. Also, do not apply if temperatures are expected to reach these levels within 24 hours after application.
- If Self-Leveller is to be left exposed for longer than 48 hours before covering, particularly in outdoor and / or warm conditions, it must be sealed.
- Do not apply Self-Leveller over frozen or frost filled surfaces.
- Test areas are recommended, to ensure the suitability of the product for the intended use. This should include the floor finishing/covering.

## HIGH STRESS AREAS:

- Self-Leveller is not recommended for use in areas of high stress or under exacting conditions eg. installation over timber flooring, fiber cement sheeting, metal decks, over existing floor coverings, such as ceramic tiles and quarry tiles, any sub-floors subject to movement, vibration, high loads or over heated sub-floors.

## PACKAGING:

20kg Self-Leveller bags.

## FLOOR COVERINGS:

As a general guide, the surface finish of Self-Leveller is not dissimilar to concrete. Any adhesives used to bond subsequent floor coverings that are compatible with concrete will be compatible with Self-Leveller. Strictly follow the floor covering adhesive manufacturer's instructions.



## **SHELF LIFE / STORAGE:**

- Storage: must be stored in a cool, dry elevated place and protected from high humidity.
- Shelf Life: Up to 1 year in unopened bags, if stored as specified above

## **SAFETY:**

- Being cement based, Self-Leveller is alkali in nature, which can cause dermatitis. Thus, when using it, it is recommended that applicators wear PVC or similar gloves and safety goggles.

## **DISCLAIMER:**

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