

SELLEYS SLC50 LEVELLER

Description

A self-smoothing cementitious levelling underlayment specifically formulated for the preparation of concrete substrates prior to the installation of Timber flooring. SLC50 has optimal properties for use as part of the Selleys Liquid Nails Timber Flooring System.

Product Information

Packaging	Size
Paper Bag	20kg

Uses

A heavy duty underlay which forms a smooth, hard surface for a variety of floor finishes including timber, carpet and ceramic tiles.

Can be used internally and exteriorly for both new construction and refurbishment projects.

Suitable for use on concrete slabs prior to using Selleys Liquid Nails flooring adhesives to lay timber flooring.

Suitable for use over Selleys VBS moisture barrier products after application of Selleys VP30 Primer.

Features

- Exceptional adhesion to concrete surfaces
- Self-smoothing
- Able to be applied in thicknesses of up to 50mm without addition of aggregate
- Can be tooled to a feather edge
- Fast setting
- Suitable for interior and exterior use
- Compatible with Liquid Nails Timber Flooring System*
- Low VOC

* If using a competitor adhesive an adhesion check is recommended.

Technical Details

Property	Typical Result
Technology	Cementitious mortar
Colour	Grey
Mix Ratio	1 x 20kg bag to 4.4lt of clean water for a free flowing self-smoothing consistency or 4.0lt for ramping up to 50mm in one pour.
Coverage	Approx. 12m ² at 1mm thick or 4m ² at 3mm thick
Application Temperature	10 – 35°C
Working Time	Approx. 15 minutes at 20°C
Cure Time	Normally floors can be walked on after 3-4 hours and ready for floor coverings after 24 hours at 23°C
Compressive Strength	1 day 15-18 MPa 7 day 18-22 MPa 28 day 30-32 MPa
VOC Content ASTM D3960-05	1 grams per Litre
Indicative data only, not intended for preparation of specifications	

Surface Preparation

New concrete should be at least 28 days old.

Excess laitance should be removed by light scabbling or captive shot blasting followed by vacuuming to remove dust debris.

The substrate should be clean, sound and free from loose material and contamination such as curing compounds, oil, grease, waxes, sealers, previous coatings or adhesives etc. that may inhibit bonding.

Complete removal of any contamination must be carried out where it is suspected or evident. Surface preparation may be achieved by diamond grinding, shot blasting, sand blasting, captive abrasive blast cleaning (Blastrac) or other suitable method. (Acid etching is not recommended as the concrete must be neutralised and dried afterwards.)

Best preparation is to diamond grind the surface of the slab, as it enables the removal of high spots as well as laitance.

All concrete sub floors must be fully cured and dry in accordance with AS 1884 (Less than 75% relative humidity when measured in accordance with ASTM F2170).

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SPECIAL NOTES ON DAMPNESS

Selleys recommend the application of a vapour barrier coating such as Selleys Liquid Nails VBS or VBS Rapid on all ground floor concrete slabs to limit moisture transmission to <15g/sqm/24hrs.

Slabs known to be of, or prone to, high moisture levels may require 2 applications of VBS.

If the slab is below grade, and there is a possibility of the water table being high enough to pressurise the concrete, perimeter drains would need to be installed.

Directions for Use

Priming

For porous concrete prime with Selleys VP30 Primer diluted 1:1 with water (refer to Selleys VP30 Primer TDS). The object of priming is to seal the substrate to prevent air release from the subfloor rising and forming bubbles and pinholes on the surface of the SLC50.

Extremely porous substrates may require two priming/sealing coats. Primer coats must be allowed to dry before applying SLC50.

Where Selleys Liquid Nails VBS or VBS Rapid has been used, a coat of undiluted VP30 Primer must be applied and allowed to dry before the application of SLC50.

Mixing

Each 20 kg bag of SLC50 requires the addition of 4.4 litres of clean, cool water to produce a free-flowing self-smoothing consistency. Water may be reduced to 4.0lt for ramping up to 50mm in one pour.

Pour the mixing water into a clean mixing vessel. Add the powder slowly to the water, mixing continuously with a heavy duty drill capable of stirring at 600rpm and fitted with a suitable paddle. Mixing should continue for at least 2-3 minutes until a smooth creamy consistency is obtained. Always add powder to liquid.

Do not over water as this will promote bleed and separation with a reduction in bond, tensile and compressive strength.

Use mix within 15 minutes after mixing and do not mix more SLC50 than can be reasonably laid within the flow time of the material. However, ensure that subsequent mixes are ready to enable continuous pouring until the area to be surfaced is complete.

Application

Pour SLC50 onto the primed substrate and use a screed bar or trowel to give the required thickness then allow to self-smooth. Pour and level in 5 – 15 minutes.

The maximum thickness applied in any one application is 50mm. If more than one coat is required, allow the SLC50 to dry for at least 12 hours and then prime and repeat application.

SLC50 has a working time of approx. 15 minutes, do not attempt to rework material after this time.

Not to be used in immersed situations such as swimming pool, spas etc.

Cleaning

SLC50 should be removed from tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.

Coverage

Each 20kg bag will cover approximately 12m² at 1mm thick or 4m² at 3mm thick.

Storage

Store in a cool dry place above ground level out of direct sunlight. Under these conditions the product will have a shelf life of 12 months.

Limitations

SLC50 is designed as an underlay material only and NOT a wearing course for traffic.

SLC50 must not be used in areas subject to permanent wetting or where back water pressure is likely.

Warnings, First Aid and Shipping Information

This information can be located on the product SDS found through our website – www.selleys.com