

Product Name: NS45 LEVELLING COMPOUND

Product Description:

Sure Level International NS45 Levelling Compound is a premixed, polymer modified cementitious underlayment specifically designed for floor levelling. It is a low shrinkage and high fluidity self-leveling compound formulated to achieve a smooth flat hard surface with good wear resistance, pressure resistance, and crack resistance. NS45 Levelling Compound is suitable for use in parking lots, schools, shopping malls, warehouses, office buildings, and other commercial and industrial spaces.

Features:

- ✔ Low shrinkage rate, not easy to crack
- ✔ High liquidity and good flow
- ✔ Easy application, suitable for manual mixing with water or mechanical mixing
- ✔ High early strength, good cohesion and abrasion resistance

Benefits:

- ✔ Underlayment for floor coverings such as carpet, ceramic tiles, etc.
- ✔ Fast repairs of uneven concrete floors.
- ✔ Residential, commercial, and medium industrial application.
- ✔ Application thickness of feather edge to 30mm in a single application.
- ✔ New construction and refurbishment projects.
- ✔ Flat smooth surfaces over existing concrete slabs.
- ✔ Levelling existing uneven concrete floors.

Surface Preparation:

- ✔ The construction surface must be hard, complete, and free of dirt. Old coatings must be removed first.
- ✔ Any hollows or loose areas on the construction surface must be repaired with repair mortar first.

Priming:

- ✔ Prime the clean, dust-free concrete substrate with Sure Level Primer using a brush, broom, or roller.
- ✔ Allow primer to reach a tacky consistency before applying NS45 Levelling Compound.

DO NOT OVER DILUTE PRIMER

DO NOT APPLY NS45 Levelling Compound TO UNPRIMED SURFACE, AS BOND WILL BE REDUCED AND AIR PIN HOLES ESCAPING MAY BLEMISH THE SURFACE.

Mixing:

- ✔ NS45 Levelling Compound requires 4.6 litres of water. To a clean mixing bucket, add the NS45 Levelling Compound powder to the pre-measured water ensuring the product is being mixed during powder addition. When all the NS45 Levelling Compound is added to the water, mix for a further 2-3 minutes until a smooth homogeneous consistency is obtained. NS45 Levelling Compound is supplied in ready-to-use form requiring only the addition of water. Ensure the product is mixed for a minimum of 5 minutes.
- ✔ DO NOT MIX BY HAND
- ✔ NS45 Levelling Compound must be mixed with a mechanical forced action mixer with high shear stirrer.
- ✔ DO NOT ADD EXCESS WATER
- ✔ Discard any material that has stiffened.

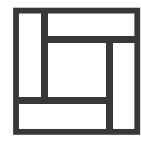
Placing:

- ✔ Pour the mixed material on the primed substrate and allow material to seek its own level. Material may be spread with a steel trowel, spreader, or squeegee. Keep the trowel slightly inclined to obtain desired thickness. To ensure uniform consistency and uniform continuous flow application of NS45 Levelling Compound, it is advised that subsequent mixes are ready to enable continuous pouring until the area to be levelled is complete.
- ✔ Protect the finished area from damage until NS45 Levelling Compound has dried. For very large areas, NS45 Levelling Compound can also be applied using an automatic pump.

Maximum Water Requirement per 20Kg Bag:

- ✔ 4.8 Litres





Application Thickness:

Minimum	Feather Edge
Maximum	30mm
Initial Set at 23°C	50 Minutes
ADJUSTMENT TIME Final Set at 23°C	90 Minutes
Foot Traffic	After 2 hours when poured at 23°C

Performance Properties:

Age	Compressive Strength	Flexural Strength
1d	25.3 Mpa	7.9 Mpa
28d	40.8 Mpa	7.5 Mpa

Coverage:

The approximate coverage is obtained if mixed in accordance with recommended procedures and accurately measured water content.

Thickness	Area per 20kg bag (m ²)
1mm	10.8
2mm	5.4
4mm	2.7
5mm	2.2
6mm	1.8
8mm	1.35
10mm	1.08
13mm	0.83

Storage:

- ✔ Store the products in a cool, dry, and ventilated place.

Shelf Life:

- ✔ NS45 Levelling Compound has a shelf life of approximately 8 months if kept in a dry environment completely away from moisture.

Packaging:

- ✔ 20Kg/bag

Clean Up:

- ✔ NS45 Levelling Compound Normal Set 40 should be removed from tools and equipment with clean water immediately after use.

Precautions:

- ✔ NS45 Levelling Compound must not be used in areas subject to frequent or permanent wetting or where back water pressure is likely.
- ✔ Where regular or permanent wetting service is required, a waterproofing membrane is necessary.
- ✔ NS45 Levelling Compound is not designed as a wearing course or as a waterproofing agent, and should only be used as an underlayment.
- ✔ To avoid too rapid drying, protect applied NS45 Levelling Compound from direct sunlight or drying winds during actual application, and while curing for up to 12 hours.
- ✔ If the substrate on to which NS45 Levelling Compound is applied moves or cracks, reflective cracking will occur in the NS45 Levelling Compound.
- ✔ Depending on thickness and ambient temperatures, NS45 Levelling Compound can be covered with flooring materials in 24 hours.
- ✔ For large and thick sections, it is advised to check the moisture content of NS45 Levelling Compound prior to application of floor coverings.
- ✔ New concrete surfaces must be at least 14 days old prior to application of NS45 Levelling Compound (refer to Application Instructions).
- ✔ Concrete substrates should be checked for moisture content prior to application of NS45 Levelling Compound.

Fire:

- ✔ NS45 Levelling Compound is non-flammable.

Health & Safety:

This product is classified as hazardous according to criteria of Work Safe Australia. Material containing Portland Cement and sand now fall into this category. Continuous or extended contact with this product may cause irritation as well as respiratory issues such as bronchitis or silicosis.

- ✔ During use, avoid inhalation of dust, contact with skin and eyes.
- ✔ Suitable protective clothing, dust masks, gloves and eye protection should be worn.
- ✔ Continual or extended contact with cement products can cause skin irritation.
- ✔ If skin irritation occurs, remove contaminated clothing and flush skin thoroughly with water for a minimum of 15 minutes. Contact Poisons Information Centre or consult medical adviser.
- ✔ Material Safety Data Sheets (MSDS) are available on request from the office. Read the MSDS and product data sheet carefully before using any product.
- ✔ Small to medium rooms should be well ventilated by means of mechanical fans.

Disclaimer:

Please Note: Recommendation and advice regarding the use of this product is to be taken as a guide only and Sure Level shall not be liable for any inaccuracy in the information or for any loss, injury, or damage whatsoever resulting from its use. To the full extent permitted by law, Sure Level liability is limited at its discretion, to the replacement of the goods or the supply of equivalent goods.

For further information consult our Technical Department

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