

Last Updated: 09/05/2024

## Product Name: Normal Set 40 Green

### Product Description:

Normal Set 40 Green is a self levelling modified cementitious underlay That meets Green Standard.

### Product Description:

Normal Set 40 Green is a strong, tough rapid hardening self levelling single component cementitious underlay. Normal Set 40 has been formulated to achieve a smooth flat surface with ease of application and maximum flow without any shrinkage or cracking. Normal Ste 40 Green will remain stable in occasional contact with water inundation.



## Performance Properties

### Typical Compressive Strength

Tested in accordance with AS1012.9 at 20°C and AS2073

Age	Compressive Strength
1 day	25 - 30 Mpa
28 days	40 - 45 Mpa

### Typical Bond Strength

Tested in accordance to ASTM C882

Age	Bond Strength
28 days	>5 Mpa

### Application Thickness

Minimum	Feather Edge
Maximum	30mm

Addition of fine aggregate recommended for deeper pours

### Typical Flexural Strength

Tested in accordance to ASTM C348 at 20°C

Age	Flexural Strength
28 days	3 - 6 Mpa

### Typical Flowability

Tested in accordance to BS890 flow cone at 20°C

Flow	200 - 300mm
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### Typical Working Time

Temp	Time (Minutes)
10°C	60 - 80 Minutes
20°C	40 - 60 Minutes
30°C	30 - 50 Minutes

## Coverage

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

Thickness	Area m2 per 20kg bag
2mm	6.5m2
4mm	3.3m2
5mm	2.6m2
6mm	2.2m2
8mm	1.6m2
10mm	1.3m2
13mm	1.0m2



## Approximate Setting Times

Vicat setting times at 20°C

Initial Set	20°C	60 Minutes
	30°C	50 Minutes
Final Set	20°C	100 Minutes
	30°C	80 Minutes

## Maximum Water Requirement Per 20kg Bag (See Mixing)

4.1 Litres

	Trowellable	Flowable
Water Range	2.6-3.0 Litres	3.2-3.8 Litres

## Traffic Time At 20°C

Foot Traffic	2 1/2 Hours
Vehicle Traffic	12 Hours
Time to Cover with floor covering Overlay	<10 mm 12-18 Hours >10mm 24 Hours
Check Moisture Content	5.5% Prior to Installation

## Application Temperature

Minimum	5°C
Maximum	30°C

**Packaging:** Normal Set 40 is supplied in a 20kg polylined bag.

**Fresh Wet Density:** 1850kg/m<sup>3</sup> approx. (Tested in accordance to AS1012.5)

## Features & Benefits:

- ✓ Accepts foot traffic within 2 1/2 hours at 20°C.
- ✓ Reinstating large areas in relative short time periods.
- ✓ Very fast application.
- ✓ Dimensionally stable even when wet..
- ✓ Single component product.
- ✓ Installation can be carried out in one application.
- ✓ Fast curing.
- ✓ Can be applied directly onto prepared concrete surfaces.
- ✓ Eliminates the need for sand and cement screeds.
- ✓ Floor covering can be applied next day
- ✓ Floor covering can be applied next day

## Recommended Applications:

- ✓ 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

## Application Instructions Substrate & Surface:

**Preparation:** Ensure the concrete substrate is clean and free from oil, grease, sealers, curing compounds, paints, polymer coatings, dust or other foreign (bond breaking) matter. Excess bitumen, adhesive, curing agent or laitance should be removed by light scabbling or mechanical captive shot blasting; followed by vacuuming to remove debris and dust. Large cracks or holes may be filled using equal parts of Normal Set 40 and clean fine sand made up to a trowellable consistency. Ensure the substrate is primed with Sure Level 644 Primer prior to carrying out application. New concrete floors must be at least 14 days old prior to application of Normal Set 40.

**Note:** - New concrete floors need to be less than 5.5% moisture content prior to Normal Set 40 application.

**Priming:** Prime the clean, dust free concrete substrate with Sure Level 644 Primer using a brush, broom or roller. Allow

primer to reach a tacky consistency before applying Normal Set 40. DO NOT OVER DILUTE PRIMER!!



**Mixing of Sure Level 644 Primer:** PPrimer Bottle Content (5 Litre).  
Add contents of 5 Litre Primer bottle into a clean empty 20 litre pail. Add 10 litres of clean water to the Primer giving a volume of 15 litres of Primer.  
Note:- Do not dilute more or less than 2 parts water x 1 part primer at any time. Apply Primer at 4-5m<sup>2</sup>/litre per coat.

### DO NOT APPLY Normal Set 40 TO UNPRIMED SURFACE.

Do not allow dust film to cover primed area prior to application of Normal Set 40. If this occurs the area must be re-primed with Primer prior to proceeding with application of Normal Set 40. For concrete substrates subject to rising damp or moisture a waterproof membrane is required. (Contact the Sure Level office for further details).

**Mixing:** Normal Set 40 requires up to 4.1 litres of water. To a clean mixing bucket, add the Normal Set 40 powder to the pre-measured water ensuring product is being mixed during powder addition. When all the Normal Set 40 is added to the water, mix for a further 2-3 minutes until a smooth homogeneous consistency is obtained. Normal Set 40 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

Normal Set 40 must be mixed with a mechanical forced action mixer with high shear stirrer.

DO NOT ADD EXCESS WATER!! Discard any material that has stiffened.

**Curing:** No special curing is required. The addition of water to Normal Set 40 after it has started to stiffen is not recommended and the product must be discarded.

**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 Normal Set 40; 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 Normal Set 40 has dried. For very large areas, Normal Set 40 can also be applied using an automatic pump. (Consult Sure Level office for further information).

### Precautions:

- ☑ Normal Set 40 must not be used in areas subject to frequent or permanent wetting or where back water pressure or swelling within the base is likely.  
Where regular or permanent wetting service is required a water proofing membrane is necessary.



- ✔ Normal Set 40 is not designed as a wearing course or as a water proofing agent, and should only be used as an underlayment.
- ✔ To avoid too rapid drying, protect applied Normal Set 40 from direct sunlight or drying winds during actual application, and while curing for up to 12 hours.
- ✔ If the substrate on to which Normal Set 40 is applied moves or cracks, reflective cracking will occur in the Normal Set 40.
- ✔ Depending on thickness and ambient temperatures, Normal Set 40 can be covered with flooring materials in 24 hours.
- ✔ For large and thick sections, it is advised to check the moisture content of Normal Set 40 prior to application of floor coverings.
- ✔ New concrete surfaces must be at least 14 days old prior to application of Normal Set 40. (refer Application Instructions).
- ✔ Concrete substrates should be checked for moisture content prior to application of Normal Set 40.



### Substrates:

For concrete substrates subject to rising damp or moisture, a water proof membrane barrier coating is required.

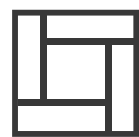
**Yields:** The approximate yields are obtained if mixed in accordance with recommended procedures and accurately measured water content. A 20kg bag of Normal Set 40 with 4.1 litres of water will yield approximately 12 litres. 83 bags are required per cubic metre. A 20kg bag of Normal Set 40 will cover approximately 1.2m<sup>2</sup> at 10mm thick, or 1m<sup>2</sup> at 12mm thick, or 2.4m<sup>2</sup> at 5mm thick. The recommended application thickness ranges from feather edge to 30mm in a single application. (For very thick sections greater than 30mm Bulk-Fil may be used or consult Sure Level for further information).

**Clean up:** Normal Set 40 should be removed from tools and equipment with clean water immediately after use.

**Storage:** Normal Set 40 has a shelf life of approximately 8 months if kept in a dry environment completely away from moisture.

**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.
- ✓ Safety Data Sheets (SDS) are available on request from the office. Read the SDS 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.

**Fire:** Normal Set 40 is non flammable.

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