

PRO 50 LEVELLING COMPOUND

Polymer Modified Self Smoothing Cementitious Floor Leveller



- ◇ 3-50mm
- ◇ Internal & External
- ◇ Fibre Reinforced
- ◇ Single Part
- ◇ Traffic after 4 Hours
- ◇ Undertile Heating
- ◇ Flexible

A single part, fibre reinforced self smoothing levelling compound suitable for use from 3mm to 50mm in one application without the need for additional granite chippings. Suitable for levelling a variety of substrates including timber floors strengthened with a plywood overlay and heated floors. The excellent levelling and flow properties of the product make it ideal for preparing sub floors prior to fixing ceramic, porcelain or natural stone tiles and soft floor coverings.

1 day flexural strength = 5.0 N/mm²
 7 day flexural strength = 6.8 N/mm²

1 day compressive strength = 20.5 N/mm²
 7 day compressive strength = 39.2 N/mm²

Pot Life @ 20°C	Set Time @ 20°C	Bed Thickness	Coverage
Approx. 20 minutes	Approx. 4 hours for ceramic/porcelain tiles Approx. 24 hours for natural stone tiles Approx. 48 hours for soft floor coverings	3-50mm	Approx. 1.7kg/m ² per 1mm thickness i.e. 4mm thick = 1.7 x 4 = 6.8kg/m ² Therefore 20kg will cover approx. 3m ² (20 ÷ 6.8)

Internal	External	Cement: Sand Render/ Screed	Anhydrite Screeds	Existing Vinyl/ Flooring Grade Asphalt	Existing Glazed Tiles	Heated Floors	Timber Floors	Total Immersion
Y	Y	Y	Y	Y	Y	Y	Y	N
			Seal & Prime As Overleaf		Slurry Bond Coat		Permalayer or Plywood/ Pro Board Overlay	



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General Surface Preparation

All surfaces should be dry, clean and strong enough to support the tiles to be fixed. All traces of dirt, dust laitance and other contaminants must be mechanically removed. Substrates should be true and flat to allow tiles to be fixed without visible lipping of tile edges. On floors, variations in surface level of the substrate which exceed 3mm under a 2 metre straight edge, should be levelled using either **Norcross Universal Floor Leveller** or **Norcross Pro 50 Levelling Compound**. This will be particularly appropriate where larger tiles, tiles with rectified edges or mosaics are being installed. Porous or dusty surfaces must be sealed using **Norcross Prime Bond** diluted 1: 4 with water.

SUBSTRATE	PREPARATION
CONCRETE/ POWER FLOATED CONCRETE	Must be a minimum of 6 weeks old. This may be reduced to 48 hours if Norcross Permalayer anti-fracture membrane is used. Power Floated concrete—brush apply a slurry bond coat consisting of 2 parts adhesive: 1 part Prime Bond & allow to dry
CEMENT: SAND SCREED	Must be a minimum 21 days old. This may be reduced to 48 hours if Norcross Permalayer anti-fracture membrane is used.
ANHYDRITE/HEMIHYDRITE ** SCREED(GYPSUM) SCREEDS)	Dry in accordance with manufacturers recommendations. Mechanically remove all traces of laitance. Prime using progressively stronger coats of Norcross Prime Bond— 1: 4 with water: 1:3 with water & if still absorbent 1: 2 with water. Allow to dry between coats.
HEATED FLOORS	After levelling the heating should not be switched on for 14 days after which the temperature should be raised at a rate of 5°C per day to operating temperature. Undertile heating cables and mats should be encapsulated in a bed of either Norcross Pro 50 or Norcross Universal Floor Leveller
VINYL TILES/ASPHALT	Must be sound & in good condition. Prime with undiluted Prime Bond & allow to dry
EXISTING GLAZED TILES	Must be well fixed and able to support the additional weight of tiling, Thoroughly clean and degrease & allow to dry before brush applying a slurry bonding coat consisting of 2 parts leveller: 1 part Prime Bond. Allow to dry.
PLYWOOD OVERLAY ON EXISTING TIMBER FLOORS (WBP/MARINE GRADE)**	Plywood must be minimum 15-18mm thick and be screwed to existing boards and joists with staggered joints at 300mm centres and 150mm centres along board edges. Seal back, face & edges with undiluted Prime Bond & allow to dry. All timber construction must be adequately ventilated behind to prevent warpage of boards.

In wet areas or those with intermittent wetting such as showers, moisture sensitive backgrounds such as plaster should be tanked using **Norcross Wet Seal Tanking Membrane

Setting Out

To gauge the floor to be levelled use a 2 metre straightedge and rotate through 360° noting where any gaps are present between the base and straightedge. Any gaps greater than 3mm should be chalk marked. In the case of more serious deviations in levels, countersunk screws should be drilled and plugged into the floor at 500mm centres. The screws should then be lined up and adjusted to the correct height by placing the straight-edge and a spirit level across them to achieve plumb markers up to which the compound can be screeded.

Mixing

Into a clean pail add 4 to 4.4 litres of clean water and slowly add the 20kg of **Pro 50 Levelling Compound**. Mix with a rotary drill paddle to form a creamy lump-free consistency. Any aggregate should be introduced after the initial mixing stage.

Application

Pour the compound onto the floor and trowel out to the desired depth. The product is self smoothing. Ceramic & porcelain tiles can be laid as soon as the product supports weight, i.e. after approximately 4 hours. It should be noted that the pot life and set times of the product will be extended in cold conditions and reduced at high temperatures.

Storage

Store in dry internal conditions away from direct sunlight between 5-25°C. The product has a 12 month shelf life from date of manufacture.

Technical Advice

For advice on tile installation products call **Norcross Technical Helpline** on **01782 524 140**

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