

PRIME BOND

Water Based, Synthetic SBR Polymer

- **Multi-purpose:**
 - Primer/Dustproofers
 - Sealer
 - Slurry bonding coat
 - Admixture
- **Internal & external**
- **Water & frost resistant**



Norcross Prime Bond is a bonding agent based on synthetic latex and other chemical additives. It may be used as an admixture in mortars and concrete to achieve high strength, chemical resistance and to improve adhesion and waterproofing properties. It may be safely used under humid conditions or in areas subject to continuous and/or alternate wetting and drying. It may be used in preparation of abrasion resistant, dustproof and mild chemical resistant screeds and floor toppings, water and weatherproof rendering, waterproof mortar for basements, lift shafts, cooling towers, swimming pools and other water retaining structures, repair of spoiled concrete and precast slabs.

Internal	Yes
External	Yes
Cement:Sand Render	Yes
Cement:Sand Screed	Yes
Anhydrite Screed	Yes Seal and prime as overleaf
Existing Vinyl Tiles	Yes
Flooring Grade Asphalt	Yes
Existing Glazed Tiles	Yes Slurry Bond Coat
Heated Floors	Yes
Timber Floors	Yes

Total Immersion	Yes
Walk on hardness time @ 20°C	30 minutes
Ready to receive floorcoverings @ 20°C	30 to 45 minutes minutes
Coverage	<p>Undiluted approx. 12m² / Litre</p> <p>1:2 approx. 36m² / Litre</p> <p>1:3 approx. 48m² / Litre</p> <p>1:4 approx. 60m² / Litre</p> <p>Slurry Bonding Coat approx. 3m² / Litre</p>

SUBSTRATE PREPARATION

Substrates to which Norcross Prime Bond mixes are to be applied shall be sound, clean, and free from dust or other contaminants such as cement laitance, release agents, curing compound paint or any other deleterious material that could impair adhesion. Remove all laitance, oil, grease, mould, oil or curing compound from concrete surfaces using wire brush, brush hammer etc. Ensure that reinforcing steel is clean and free from grease oil, remove scale and rust. When repairing spalled or damaged concrete, ensure the concrete has been cut back to thoroughly sound material.



SURFACE PREPARATION

Concrete/ Power Floated Concrete	Must be a minimum of 6 weeks old. This may be reduced to 48 hours if Norcros Permalayer anti-fracture membrane is used. For power floated concrete, brush apply either Norcros Key Bond or a slurry bond coat consisting of 2 parts Norcros cement-based leveller or 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 Norcros Permalayer anti-fracture membrane is used. Reduce porosity & dust proof using Prime Bond diluted 1:4 with water.
Anhydrite/ Hemihydrate (Gypsum) Screed When Using Cement-Based Adhesives	Dry in accordance with manufacturers recommendations. Mechanically remove all traces of laitance. Prime using progressively stronger coats of Norcros Prime Bond - 1:4 with water: 1:3 with water & if still absorbent 1:2 with water. Allow to dry between coats.
Anhydrite/ Hemihydrate (Gypsum) Screed When Using Tile to Gypsum Adhesive	Dry in accordance with manufacturers recommendations. Mechanically remove loose dust/laitance and smooth/shiny areas. Prime using Norcros Prime Bond - 1:4 with water. Allow to dry.
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 (Refer to Norcros How to sheet 'Commissioning of Underfloor/ Undertile Heating Systems'). Undertile heating cables and mats should be encapsulated in a bed of Norcros Levelling Compound.
Asphalt	Must be sound & in good condition. Prime with undiluted Prime Bond & allow to dry.
Gypsum Plaster/ Plasterboard**	When using cement-based adhesives, seal with undiluted Prime Bond & allow to dry. Plaster skim + backing coat must be a minimum 4 weeks old. Plaster skim only at least 7 days old. Maximum weight limits are: Plaster = 20kg/m ² ; Plasterboard = 32kg/m ² .
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 cement-based adhesive: 1 part Prime Bond. Allow to dry.
Plywood Overlay on Existing Timber Floors (WBP/ Marine Grade Plywood)**	Plywood must be minimum 15-18mm thick, screw-fixed to joists and existing boards at maximum 300mm centres. Seal the back, face and edges of the board with undiluted Norcros Prime Bond & allow to dry. All timber construction must be adequately ventilated from behind to prevent warpage of the boards.
Steel	Must be well fixed and able to support the additional weight of tiling. Thoroughly clean and degrease & allow to dry before applying a slurry bond coat consisting of 2 parts Norcros cement-based leveller powder or adhesive: 1 part Prime Bond. Allow to dry.

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

MIXING – SCREEDS & RENDERS

Should preferably be carried out in an efficient concrete mixer; where available a pan type mixer is recommended. Hand batching is only recommended when the total weight of the mix is less than 25kg. Charge the mixer with the required quantity of sand and cement and premix for 1 minute. Pour in the desired quantity of Prime Bond and mix for 2 minutes, to avoid excessive air entrapment. Finally, without delay, add the water slowly until the required consistency is achieved. Owing to the strong plasticising properties of Prime Bond rapid thinning can occur. Avoid adding excessive water.

APPLICATION

Rendering to Vertical Surfaces: Bonding Slurry:

Prepare bonding slurry of 5 parts cement to 1 part Norcros Prime Bond Water may be added to achieve a lump-free creamy consistency. Using a stiff brush, work the bonding slurry well into the damp surface ensuring that no pinholes are visible. Do not apply bonding slurry at a thickness in excess of 2mm. If a second coat is necessary, it must be applied after the first coat is "touch dry". The second coat must be applied at right angles to the first to ensure complete coverage. Apply the bonding slurry to the prepared surface and then render immediately with Norcros Prime Bond modified mortar. It is preferable to apply Norcros Prime Bond modified mortars in coats to a maximum thickness of 6mm per coat as greater thicknesses can lead to slumping. However, several coats can be applied in fairly rapid succession usually within 15 to 30 minutes. Thicker layers can be applied providing suitable formwork is used.

Admixture in Rush Coat:

Norcros Prime Bond may be added in the rush coat for plaster over concrete.

Screeds and Toppings, Applied to Horizontal Surfaces:

Screeds, patches etc. based on Norcros Prime Bond modified cements can be laid to any thickness from 60mm down to 6mm minimum. After mixing the Norcros Prime Bond modified mix should be placed over the still wet bonding slurry, well compacted and struck off to level. It may then be trowelled to the required finish using a wooden float or steel trowel.

NOTE: Whenever screeds are being laid over existing concrete surfaces it is important that expansion joints in the sub floor are carried through the Norcros Prime Bond modified mix. This can be done by fitting a temporary timber batten wrapped in polythene.

PRECAUTIONS

Application of Norcros Prime Bond should be carried out as per the procedure mentioned in this technical data sheet. Norcros Adhesives will not be held responsible for any claim arising out of non-performance of the product due to an incorrect application procedure or usage of the product for non-recommended purpose. Please contact Norcros Adhesives technical team for more details on application of Prime Bond for purposes other than mentioned above.

STORAGE

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

TECHNICAL ADVICE

For advice on tile installation products call the Technical Helpline on 01782 524140.

Further information may also be obtained from the Norcros 'How to' sheets available on the website.

HEALTH & SAFETY

This product should not be inhaled and a properly designed and maintained face mask should be used whilst handling, pouring and mixing the powder. Avoid contact with product by working carefully, using a barrier cream and wearing protective gloves. If any contact does occur, wash thoroughly with soap and water. Use eye protection. Avoid contact with eyes, if such contact occurs irrigate with water for 20 minutes and seek medical advice. If ingested drink plenty of clean water and seek medical advice.