

Bond

BOND TACT

SELF LEVELLING UV RESISTANT CEMENTITIOUS SCREED

The logo for Bond, featuring the word "Bond" in a white, cursive font inside an orange rectangular box.

***BOND*TACT**

Self Levelling UV Resistant Cementitious Screed

Product Description

BondTact is a single component, self levelling and UV resistant compound with built-in synthetic latex polymer. It can be used on a wide range of absorbent and non-absorbent floor surfaces including concrete, cement and sand screeds. BondTact has good **water absorption** property which minimize water seepage problem. It can be laid at minimum depths of 3mm.

Feature & Benefits

- Single component, just mix with water
- Good adhesion to clean surface
- Good flow, self smoothing
- Easy and quick to lay
- UV resistant

Application Range

- For levelling of old and worn concrete screeds
- Commercial, industrial, parking areas, walkway, etc.
- Underlay for soft floor covering

Specification Clause

The levelling screed shall be **BondTact** – a standard cement-based, floor overlay levelling screed supplied by **B-Team Construction Supplies Pte Ltd**.

Application Notes

Packaging

Packed in 25kg multi-ply paper bag.

Shelf Life

The powder contains hydraulic cements and water soluble additives. Storage, therefore must be in dry conditions, raised above floor level and at temperature range of between 5°C and 30°C. The usable shelf life shall be approximately 9 months.

Coverage

Coverage will depend on the condition of the floor. The estimated coverage will be 1.8kg per m² per mm thick.

Substrate Preparation

The substrate must be dry, clean and sound, free of dust, loose particles, grease or any other contaminants. Surfaces should be smooth and free from honeycombs, protrusions or voids. Concrete surfaces should be free from laitance which, if present, should be removed by scabbing or grit blasting to produce a sound surface. After cleaning, the floor must be swept free of dust and then damped down with water to satisfy the natural absorption. Pools of water must be dispersed. All joints must be raked out and filled with a stiff mix of smoothing compound.

Priming

Prime with **Bond Primer**

Bond

Mixing

Add clean water to a suitable mixing bucket and then smoothly add the **BondTact** powder. Mix slowly and continuously whilst the powder is added. Thoroughly until a smooth mortar is obtained; scrape down the sides of the bucket to mix in any dry powder. A 25kg bag will require approximately 5.0-5.3 litres of clean water. The mixed material is immediately ready to use and should be used within 15 minutes after mixing.

Laying

Pour the mixed material onto the floor immediately after mixing and spread with wide sweeping strokes using a plasterer's plastic or steel float. Use firm pressure and work well into the corners and around projections. Leave a neat edge for subsequent batches. Subsequent mixes should be poured into the wet edges of the previous mix. Old partially set material must be scraped up and discarded.

Drying Time

Prevent draughts across the floor to avoid localized premature drying. At ambient temperatures, **BondTact** will appear to be dry after approximately two hours. After 2 to 3 hours, light foot traffic may be allowed.

Hardening

Full strength is achieved after 28 days. However, at 28°C room temperature, **BondTact** will be sufficiently dry to allow adhesive spreading after 24 hours. This will take longer in colder climatic conditions. Do not lay in temperature below 5°C. Under floor heating must be turned off at least 48 hours before work starts and left off until 48 hours after the final surfacing has been completed.

Safety Data

As with all chemical products, care should be taken during use and storage to avoid contact with eye, mouth, skin and foodstuff (which can also be tainted with vapour until the product is fully cured or dried). Should it come into contact with eyes wash immediately with plenty of water and seek medical treatment.

User Notes

The technical details and recommendations contained in this data sheet are given in good faith and represent the best of our knowledge and experience at time of printing. It is the responsibility of the user to ensure that the products are used in accordance with BondTact's instructions and in applications for which they are intended.

Technical Data

Product Identity:

Consistency:	Self-smoothing
Colour:	Grey

Mechanical Properties:

Working Time	15 minutes
- Initial setting time	120 minutes
- Final setting time	360 minutes
Walk on time	24 hours (foot traffic)
Shrinkage	<0.04%
Compressive Strength	
- 24 hours	4 N/mm ²
- 7 days	20 N/mm ²
- 28 days	26 N/mm ²



MACKINCOTE PU54

Water-Borne Floors Dressing

PRODUCT DESCRIPTION

Mackincote PU54 is a two-component high performance water-borne ALIPHATIC polyurethane coating. It is environmental friendly and designed for a durable topcoat. When fully cured, it dries to a super tough and able to withstand aggressive and severe weather conditions, prolonged exterior exposure, abrasion and impact. **Mackincote PU54** is water repellent has high resistance towards alkaline, salts, mild acids and a wide range of industrial chemicals. **Mackincote PU54** is anti-fungus, anti-algae and is also excellent towards UV resistance.

RECOMMENDED USES

For concrete and masonry surfaces as concrete floors, wallboard surfaces, walkway, hospital and laboratories floors, clean rooms and area with high human traffic movement. It is also excellent to top over the epoxy coating due to its non-chalking, non-yellowing and high resistance towards aggressive weather conditions.

MIXING

Mix contents of each component thoroughly to obtain a uniform consistency. Pour the contents of the Hardener (Part B) into the container marked Resin or (Part A) while under agitation. Continue agitation until the two components are thoroughly mixed.

Important : Do not use mixed materials beyond the recommended pot-life of 6 hours maximum.

Only open the Hardener (Part B) portion when required to mix – the Hardener is sensitive to weathering

THINNING

The product is supplied ready to use. If thinning is required, not more than 5% of clean water may be added before mixing with hardener.

APPLICATION CONDITION

Surfaces to be painted should be thoroughly cured, dry and reasonably clean. It should also be free from efflorescence fungus, grease and other contaminants. Area with old-paint works should be thoroughly washed, preferably with high pressure water-jet before any painting works can be carried out.

RECOATING INTERVAL

Specially formulated for tropical weather conditions and due to its fast curing properties preferably eight hours after first coat.

PACKING

5 litres and 20 litres

HEALTH AND SAFETY

Contains no mercury or lead. Not harmful to human, turf and other living organism. In case of any accidental swallowing, consult a physician immediately. If any eye contact, wash thoroughly with clean water and if discomfort persists consult a physician.

TECHNICAL DATA

Finish	Sheen
Colour	Pigmented or clear
Theoretical Coverage	Approximately 8m ² /litre
Dry Film Thickness (DFT)	50 microns
Viscosity at 28°C (B4 Cup)	60 secs
NVM Percentage	Approximately 40%
Dispersion	40 microns
Specific Gravity	1.04 – 1.20
Wet Abrasion	5000 cycles and above
Dry Time @ 28°C	Tack Free < ½ hour Hard Dry ≤ 4 hours
Pot Life	< 3 hours
Odour	Pleasant
Shelf-Life	6 months (stored indoor at 30°C)
Flash Point	NIL

All suggestion, technical data for use contained herein are correct to the best of our knowledge. Technical advice or service on suitability of product for specific application and end use requirement is available upon request

B-TEAM CONSTRUCTION SUPPLIES PTE LTD
Block 4003 Depot Lane #01-61 Singapore 109757
Tel : 65 62711890 Fax : 65 62711897
Email : bteam@singnet.com.sg

The logo for 'Bond' is written in a white, cursive script font on an orange rectangular background.

BOND PRIMER

PRODUCT DESCRIPTION

Bond Primer is a technologically advanced acrylic based multipurpose primer, for use prior to the application of Bond mortar systems (BondTact and BondSeal). **Bond Primer** increases the bond strength of cementitious mortar systems, such as floor levellers and patching and repair products.

RECOMMENDED USES

It is used as floor primer for both internal and external applications. It can be applied over concrete and most common porous building substrates. **Bond Primer** reduces the porosity of substrates by providing a consistent surface to regulate the drying of Bond mortar systems. The application of **Bond Primer** prior to applying Bond floor levellers reduces pin-holings. **Bond Primer** increases the adhesion of Bond mortar systems.

APPLICATION CONDITION

The surfaces must be dry, structurally sound, clean, free of dust, dirt, wax, oil, grease, asphalt, mastic, latex compounds, adhesives, paint, gypsum based products, and other contaminants.

MIXING

Bond Primer is supplied ready for use – the product must not be diluted.

TECHNICAL DATA

Specific Gravity of Mix	1.0 ± 0.05
Coverage	8 – 10m ² / L
Drying Time at 20°C	30 minutes
Flash Point	Non flammable



METHOD OF STATEMENT FOR APPLICATION OF BOND TACT SELF LEVELLING UV RESISTANT CEMENTITIOUS SCREED

SUBSTRATE PREPARATION:

1. The substrate must be clean, sound, dry and free of oil, grease, curing compound or any loose materials. High pressure water jetting is recommended for this surface cleaning task.
2. Degrease locations contaminated with grease must be cleaned with heavy duty degreaser (SWAB) by roller application. Allow a minimum of 10 minutes for the degreaser to activate before washing the entire floor by high pressure water jet.
3. Inspect existing floor for debonding with a tapping rod. Debonded spots exceeding 1m span in any direction is to be treated by injecting grout additive (Davco's DW1). The drying time for the grout must be 24 hours. Patch up all cracks exceeding 2mm width with fibre glass netting and Non-shrink Grout (Davco's Grout 280).
4. Mark out locations of 'L' PVC control joints. If no 'L' PVC control joints were installed, mark out locations of shrinkage/expansion joints. The span of such joints should not exceed 6m in any direction.
5. Protect the scupper drain and tiling works if any, with masking tape.

PRIMING:

6. Allow 24 hours washing for drying and then apply 1 coat of Bond Primer to clean, dry and prepared substrate.
7. Allow the Bond Primer to dry for approximately 20 minutes. Recommended to apply BondTact Self Levelling screed on primed substrate within 48 hours. After 48 hours, such prime substrate must be re-primed before receiving BondTact Self Levelling screed.

INSTALLATION OF SELF LEVELLING SCREED:

8. Add 5 – 5.5 litres clean water to a suitable mixing bucket and then slowly add the BondTact self levelling UV resistant cementitious screed powder. Mix slowly and continuously whilst the powder is added. Thoroughly until a smooth mortar is obtained. Scrape down the sides of the bucket to mix in any dry powder.
9. The mixed material is immediately ready to use and should be used within 20 minutes after mixing.
10. Pour the mixed material onto the floor immediately after mixing and spread with wide sweeping stroke using a plasterer's plastic or steel float.
11. Use firm pressure and work well into the corners and around projections. Leave a neat edge for subsequent batches.
12. Subsequent mixes should be poured into the wet edge of the previous mix. Old partially set material must be scraped up and discarded.

CURING AND HARDENING:

13. Prevent draught across the floor to avoid localized premature drying. At ambient temperature, BondTact will appear to be dry after approximately two hours.
14. Upon setting, cut groove lines (shrinkage/expansion joints) of size approximately 2mm x 4mm according to the marked out locations (item 4). A thin metal strip bent at one end to a 'U' is used for such cutting.
15. Before applying 1 coat of Sealer or Mackincote PU54, the surface must be cleaned by sweeping.
16. Allow BondTact to dry for 24 hours before applying 1 coat of Sealer or Mackincote PU54.
17. Recoating of Sealer or Mackincote PU54 is to be done at least 8 hours after the first coat.

Bond

BOND TACT TO FLOOR

