

Bond

BONDSEAL

ACRYLIC POLYMER CEMENTITIOUS COATING

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BONDSEAL

Acrylic Polymer Cementitious Coating

Product Description

BondSeal is a 2-component acrylic polymer cementitious coating for repair and resurfacing all kind of concrete surfaces. It is specially formulated for hard wearing surfaces with good skid resistance property. **BondSeal** has good **water absorption** property which minimize water seepage problem. It is also **anti-fungus** and **anti-algae**. **BondSeal** can be laid at a thickness of 1mm to 6mm.

Feature & Benefits

- Easy application with minimal disruption
- Eliminates the arduous task of hacking
- Finished surface is fuel, oil, diesel, water and chemical resistant
- Provides a strong, wear resistant surface
- Excellent workability, easy trowel
- Excellent bond on properly prepared sound substrate
- Anti-skid and adheres well to most surfaces

Application Range

- For repair of all concrete surfaces
- Car Park, Void Deck, Apron, Drains, Pavement, Ramps, Corridor, etc.
- Repair to damaged surfaces and potholes of Industrial Floors
- Raising floor levels to a particular requirement

Specification Clause

The acrylic polymer cementitious coating shall be **BondSeal** – supplied by **B-Team Construction Supplies Pte Ltd**.

Application Notes

Packaging

- 30kg set**
- 5.0 Litre Polymer (Part A)
 - 25 kg Powder (Part B)

Shelf Life

Storage 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 1.6kg per m² per mm thick.

Substrate Preparation

The substrate must be free from all contaminants (dust, oil, grease) and all loose materials must be removed and cleaned.

Priming

Prime with **Bond Primer**

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Mixing

Mix **BondSeal** (Part B) to 5 Litre of Polymer (Part A) in a clean container with a mechanical mixer at a slow speed, stir till the right consistency is achieved (2-3 minutes mixing time). Pour and lay **BondSeal** using a metal trowel to smoothen the material up to a thickness of 3mm to 6mm in one operation. For anti skid surface, brooming method is used.

Drying Time

Prevent draughts across the floor to avoid localized premature drying. At ambient temperatures, **BondSeal** will appear to be dry after approximately four hours. Full setting time at 24 hours.

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.

Properties

Compressive Strength	$\geq 45 \text{ N/mm}^2$
Flexural Strength	$\geq 15 \text{ N/mm}^2$
Tensile Strength	$\geq 8 \text{ N/mm}^2$
Skid Resistance	$\geq 60 \text{ BPN}$
Taber Abrasion Resistance	$\leq 1.5\text{g}$
Shear Bond Strength	2.0 N/mm^2
Water Penetration	$\leq 1\text{mm}$
Water Absorption	$\leq 6\%$
Setting time	~ 4 Hours
	Full setting time @ 24 hours



METHOD OF STATEMENT FOR APPLICATION OF BONDSEAL ACRYLIC POLYMER CEMENTITIOUS COATING

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 spacing for the injection holes shall be appx 17mm in diameter, and it should be 3m apart for each inject hole. The drying time for the grout must be 24 hours. Cracks exceeding 2mm shall be chiseled to form a 'V' groove of approximately 4mm wide and 3mm in depth and patch up with fibre glass netting (Flintkote FG4 Fabric, 50mm width x 50m Length) and Non-shrink Grout (Davco's Grout 280). All other hairline cracks less than 2mm would be patch up with 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.

PRIMING:

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

INSTALLATION OF BONDSEAL APCC SCREED:

7. Add 5 litres polymer to a suitable clean mixing bucket and then slowly add the BondSeal APCC. 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.
8. The mixed material is immediately ready to use and should be used within 20 minutes after mixing.
9. Pour the mixed material onto the primed surface immediately after mixing. Pour and lay BondSeal APCC using a metal trowel to smoothen the material up to a thickness of 3mm to 6mm in one operation. For anti-skid surface, brooming method is used.
10. Use firm pressure and work well into the corners and around projections. Leave a neat edge for subsequent batches.
11. 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:

12. Prevent draught across the floor to avoid localized premature drying. At ambient temperature, BondSeal will appear to be dry and set after approximately two hours.
13. 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.
14. Before applying 1 coat of Sealer or Mackincote PU54, the surface must be cleaned by sweeping.
15. Allow BondSeal to dry for 24 hours before applying 1 coat of Sealer or Mackincote PU54.
16. 2nd coat of sealer or Mackincote PU54 is to be done at least 8 hours after the first coat.

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BONDSEAL TO APRON

