APPLICATION GUIDE

THE PROVEN PERFORMER THAT NEVER LETS GO

REV 04/11
**BondCrete** the proven performer has evolved since 1951 into the most versatile and reliable bonding and sealing agent available.

**BondCrete** contains an exclusive resin additive which ensures maximum bonding strength.

**BondCrete** in its undiluted form provides a ready to use, non toxic, non staining adhesive for carpentry, joinery and general craft work.

**BondCrete** is so strong there is seldom any need to hack chip or acid etch the surfaces to be bonded eg. Concrete, bricks, tiles, plaster, stone, timber, ceramics, metal, fabric etc.

**BondCrete** is a concentrated high solids product which allows in most applications a high dilution ratio, ensuring both unequalled economy and bond strength.

**Please Note:**

- Always apply **BondCrete** to clean surfaces free of oil, grease, mould, loose materials or any foreign matter.

- Do not use **BondCrete** in permanently wet or damp areas, except to make a cement slurry or diluted **BondCrete** is used as an admix to cement or sand/cement aggregate mixtures. For waterproofing applications in permanently wet areas eg. Pools, bathrooms etc. Please refer to the **HydroCrete SBR** application guide.

- Do not use **BondCrete** in temperatures below 10ºc. BondCrete is not recommended for bonding of plastic or rubber.

- Wash brushes and equipment immediately after use in clean running water. Replace the container lid immediately to maintain the quality of your **BondCrete**.
**COVERAGE**

**BondCrete undiluted**
3.5m² per Litre

**BondCrete diluted**
- BondCrete 4 : Water 1 = 8m² per Litre
- BondCrete 1 : Water 1 = 17.5m² per Litre
- BondCrete 1 : Water 4 = 35m² per Litre

**ADMIX RATIO**

**BondCrete as an admix**
BondCrete 1 : Water 10 is an ideal ratio as an admix to cement toppings, plaster concrete etc.

2 Litres of BondCrete diluted with 20 Litres of water is normally sufficient for mixing each 40 kg bag of cement.

\[
\text{MIX} \quad (S \times 2) + (C \times 1)
\]

\[
\text{ADDITION} \quad (C \times 1) + (H_2O \times 10)
\]

**SIZES AVAILABLE**

**Carpentry, joinery and craft use**
250ml, 500ml - in craft sections of hardware stores.

**Consumer and trade use**
1L, 4L, 15L, 20L - in trade sections of hardware stores.

**Bulk orders**
200L containers and bulk orders are available on request, contact Bondall on (08) 6272 3800 for more information.
Sealing
Apply a sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) and allow to dry.

\[
\text{MIX} \quad (\text{BONDCRETE} \times 1) + (\text{H}_2\text{O} \times 4)
\]

Bondcoat
Apply a bondcoat of diluted BONDCRETE (BONDCRETE 4: WATER 1), progressively as the toppings are being laid and avoid walking on the bondcoat.

\[
\text{MIX} \quad (\text{BONDCRETE} \times 4) + (\text{H}_2\text{O} \times 1)
\]

Topping
Apply topping while bondcoat is still “tacky”. Suggested mix is (CLEAN SAND OR FINE AGGREGATE 2-3: CEMENT 1) mixed to a workable consistency with BONDCRETE admixture (BONDCRETE 1: WATER 10) in place of normal water.

\[
\text{MIX} \quad (\text{S} \times 2) + (\text{C} \times 1) \\
\text{ADMX} \quad (\text{BONDCRETE} \times 1) + (\text{H}_2\text{O} \times 10)
\]
APPLICATION

BONDCRETE for patching or laying up to 6mm topping on concrete floors and driveways.

Sealing
Apply a sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) and allow to dry.

BondCoat
Apply a bondcoat of diluted BONDCRETE (BONDCRETE 1: WATER 1).

Topping
While the bondcoat is wet or tacky carry out patching or topping. Mix (CLEAN SAND 2 OR 3: CEMENT 1) mixed to a workable consistency with BONDCRETE admixture (BONDCRETE 1: WATER 10) in place of normal water. Avoid over troweling, do not over wet the mix.
APPLICATION

BONDCRETE for patching concrete floors and driveways.

Preparation
Damaged areas to be patched should be keyed out to a minimum depth of 6mm.

Coating
Apply coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) and allow to dry.

Bondcoat
Apply a bondcoat of diluted BONDCRETE (BONDCRETE 4: WATER 1) and while wet apply the Patching Mortar.
**APPLICATION**

**BONDRETE for rendering onto smooth surfaces eg: beams and lintels where no key exists.**

**BondCoat**

Apply 1 bond coat of diluted BONDRETE (BONDRETE 4: WATER 1).

\[( \text{Bondcrete} \times 4 ) + ( \text{H}_2\text{O} \times 1 )\]

**Splash Coating**

While the previous coat is still “tacky” apply one coat of (CEMENT 1: SAND 1/4, FINE METAL SCREENINGS 2) mixed to a “Splash Coat” consistency with diluted BONDRETE (BONDRETE 1: WATER 4).

\[( \text{C} \times 1 ) + ( \text{S} \times 1/4 ) + ( \text{MS} \times 2 )\]

\[+\]

\[( \text{Bondcrete} \times 1 ) + ( \text{H}_2\text{O} \times 4 )\]

**Rendering**

Allow 24 hours before rendering using the specified cement render mixed with BONDRETE admixture (BONDRETE 1: WATER 10) in place of normal water.

\[( \text{Bondcrete} \times 1 ) + ( \text{H}_2\text{O} \times 10 )\]

**Notes**

Unless specified the suggested render mix is 21/2 - 3 parts sand, 1 part cement mix to a workable consistency with diluted Bondcrete Admixture.
**APPLICATION**

**BONDocreTE for setting a cement coat to a rendered surface which is rough and requires refinishing.**

**Sealing**

Apply 1 sealing coat of diluted BONDocreTE (BONDocreTE 1: WATER 4).

\[
\text{MIX} \quad (\text{Concrete} \times 1) + (\text{Water} \times 4)
\]

**Bondcoat**

a) To large holes and depressions apply a bondcoat of diluted BONDocreTE (BONDocreTE 1: WATER 1)

\[
\text{MIX} \quad (\text{Concrete} \times 1) + (\text{Water} \times 1)
\]

b) Whilst bondcoat is still tacky, fill with a mixture of (SAND 5: CEMENT 2)

\[
\text{MIX} \quad (\text{Sand} \times 5) + (\text{Concrete} \times 2)
\]

c) Add enough diluted BONDocreTE (BONDocreTE 1: WATER 4) to make a mix workable consistency, fill any big holes and allow to dry.

\[
\text{MIX} \quad (\text{Concrete} \times 1) + (\text{Water} \times 1)
\]

**Treating & Refinishing**

a) Treat the surface with diluted BONDocreTE (BONDocreTE 1: WATER 4).

\[
\text{MIX} \quad (\text{Concrete} \times 1) + (\text{Water} \times 4)
\]

b) Whilst this coat is still tacky apply mixture of (CEMENT 2: SAND 1) with enough diluted BONDocreTE (BONDocreTE 1: WATER 4) to make a mix that can be troweled on 4mm thick.

\[
\text{MIX} \quad (\text{Sand} \times 2) + (\text{Concrete} \times 1) + (\text{Concrete} \times 1) + (\text{Water} \times 10)
\]
BONDCRETE for plaster setting onto concrete ceilings, walls, beams.

Sealing

Apply 1 sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) and allow to dry.

Coating & Plastering

a) Add one coat of diluted BONDCRETE (BONDCRETE 1: WATER 1).

b) While this coat is still wet, plaster with Hard Wall Plaster mixed to required consistency with diluted BONDCRETE (BONDCRETE 1: WATER 4) in place of normal water.
**APPLICATION**

BONDCRETE for rendering onto painted surface.

**Coating**

To a sound painted surface which has been wire brushed apply one coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) and allow to dry for 24 hours. Note: To ensure surface is sound do a tape test. Cut a cross cut into the painted surface and firmly press a quality masking tape over the cross cut area, and pull off. If little or no paint is removed proceed. Do this over several areas to ensure integrity of painted surface.

\[
\text{Mix} \quad (\text{BONDCRETE} \times 1) + (\text{H}_2\text{O} \times 4)
\]

**Bondcoat**

Apply a bondcoat of diluted BONDCRETE (BONDCRETE 4: WATER 1).

\[
\text{Mix} \quad (\text{BONDCRETE} \times 4) + (\text{H}_2\text{O} \times 1)
\]

While this coat is still “tacky” apply one coat (CEMENT 4: SAND 1: FINE AGGREGATE 2) mixed to a “Splash Coat” consistency with diluted BONDCRETE (BONDCRETE 1: WATER 4).

\[
\text{Mix} \quad (\text{C} \times 4) + (\text{S} \times 1) + (\text{AG} \times 2)
\]

\[
\text{Admix} \quad (\text{BONDCRETE} \times 1) + (\text{H}_2\text{O} \times 4)
\]

**Rendering**

Allow to dry for 24 hours before rendering using a specified cement Render with BONDCRETE admixture (BONDCRETE 1: WATER 10) in place of normal water.

\[
\text{Render} + \text{Admix} \quad (\text{BONDCRETE} \times 1) + (\text{H}_2\text{O} \times 10)
\]
BONDRETE for rendering onto masonry blocks.

Bondcoat

a) Apply bondcoat of diluted BONDRETE (BONDRETE 1:WATER 1).

\[
\text{MIX} \rightarrow (\text{BONDRETE} \times 1) + (\text{H}_2\text{O} \times 1)
\]

b) While this coat is still tacky apply the Render using a Render mixed with BONDRETE admixture (BONDRETE 1: WATER 10) in place of normal water.

\[
\text{RENDER} + (\text{BONDRETE} \times 1) + (\text{H}_2\text{O} \times 10)
\]
APPLICATION

BONDCRETE for rendering onto steel form structural concrete.

Preparation
It is important to remove all Form Release Agents which have transferred from the Forms to the concrete.

Sealing
Applying a sealing coat of diluted BONDCRETE (BONDCRETE 4: WATER 1).

Rendering
While this coat is still wet or tacky apply the Render in the normal manner. For improved adhesion use a Render mixed with BONDCRETE admixture (BONDCRETE 1: WATER 10) in place of normal water.
BONDCRETE for tiling concrete floors old or new.

Sealing

If either the Concrete or the back of the Tiles is porous, seal the porous surface with a sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) and allow to dry.

Bondcoat

Apply a bondcoat of diluted BONDCRETE (BONDCRETE 1: WATER 1) and lay the Bedding while this coat is still sticky.

Screeding & Tiling

Screed Bedding to required level and bed the Tiles immediately.

Notes

Beddings must be fresh. Any Bedding Mix not used within 45 minutes of mixing should be discarded. Any Bedding Mix or grout containing BONDCRETE must be cleaned off the face of the tile before it dries. Floor tiles must be applied on full beddings only.
APPLICATION

BONDRETE for tiling to wall or floor sheeting, old or new compressed F.C Hardiflex, Versilux hard board, Chipboard or plaster board.

Preparation

Determine that the Sheet used is suitable (i.e. Showers and Bathrooms should be sheeted in materials for wet areas).

Sealing

Seal the sheet with a sealing coat of Diluted BONDRETE (BONDRETE 1: WATER 4) and allow to dry.

Bondcoat

Apply a bondcoat of diluted BONDRETE (BONDRETE 1: WATER 1) to the dry sealed surface

Whilst tacky apply a Bedding Mix (CEMENT 1: FINE SAND 2) mixed to a workable consistency with diluted BONDRETE (BONDRETE 1: WATER 4) in place of normal water.

Tiling

If the Tiles have a porous back, coat the back with diluted BONDRETE (BONDRETE 1: WATER 4) and bed while both of the Tiles and the Bedding Mix are wet.

Notes

Beddings must be fresh. Any Bedding Mix not used within 45 minutes of mixing should be discarded. Any Bedding Mix or grout containing BONDRETE must be cleaned off the face of the tile before it dries. Floor tiles must be applied on full beddings only.
APPLICATION

**BONDRETE for tiling clay brick or masonry block walls.**

**Preparation**

Point up the Mortar Courses to bring them flush with the surface.

**Sealing**

If either the Concrete or the back of the Tiles or Porous, seal the porous surface with diluted BONDRETE (BONDRETE 1: WATER 4).

**Bondcoat**

Apply a bondcoat of diluted BONDRETE (BONDRETE 1: WATER 1) and lay the Bedding while this coat is still tacky.

**Beddings up to 6mm**

(cement 1 : Fine Sand 2)

\[
\text{MIX} \quad (c \times 1) + (s \times 2)
\]

**Beddings over 6mm**

(cement 1 : Fine Sand 3)

\[
\text{MIX} \quad (c \times 1) + (s \times 3)
\]

**Bondcoat**

Mixed to workable consistency with diluted BONDRETE (BONDRETE 1: WATER 6) in place of normal water.

**Screeding & Tiling**

Screened Bedding to require level and bed the Tiles immediately.
**APPLICATION**

**BONDCRETE for tile grouting.**

**Preparation**

Porous tiles should be thoroughly wet down before grouting to prevent the colouring materials entering the face of the tiles.

**Grouting**

Prepare a Grouting Mix (CEMENT 1: SAND 3) with BONDCRETE admixture (BONDCRETE 1: WATER 10). This mix can be coloured with iron oxides if required.

\[
\begin{align*}
\text{MIX} & \quad (c \times 1) + (s \times 3) \\
\text{ADMIX} & \quad (\text{BONDCRETE} \times 1) + (\text{H}_2\text{O} \times 4)
\end{align*}
\]

**Notes**

Beddings must be fresh. Any Bedding Mix not used within 45 minutes of mixing should be discarded. Any Bedding Mix or grout containing BONDCRETE must be cleaned off the face of the tile before it dries.

Floor tiles must be applied on full beddings only.
APPLICATION

BONDCRETE for bonding quarry or ceramic tiles to timber floors.

Preparation

Ensure boards are securely nailed.

Sheeting

Sheet the floor with compressed F.C Sheeting. If a waterproof deck is required all sheet joints should be sealed with a flexible Caulking compound. Use sufficient nails to prevent any flexing in the sheet.

Sealing

Apply a sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) to the sheeted floor and allow to dry.

Bondcoat & Bedding

Apply a bondcoat of diluted BONDCRETE (BONDCRETE 1: WATER 1) to the surface.

While this coat is still “tacky” lay a Bedding Mix (CEMENT 1: CLEAN SAND 2) mixed to the workable consistency with diluted BONDCRETE (BONDCRETE 1: WATER 6) in place of normal water. Screen the Bedding Mix to the required level.

Tiling

If the tiles have porous back, coat the back with diluted BONDCRETE (BONDCRETE 1: WATER 1) and bed while both the Tiles and the Bedding Mix are still wet.

Notes

Tile joints should be placed to correspond with the joints in the sheets so that any movement in the floor will be on the grout lines rather than cracking the tiles.
BONDCRETE for clear proofing to interior face brickwork, stonework, decorative render etc.

Preparation

Surface should be cleaned by the appropriate method to remove any staining that will be visible through the transparent coating such as cement residue, efflorescence, timber stains, rust marks, mould, fungus, oil and grease.

Pointing

If desired point up holes in mortar lines using a mix (CEMENT 1: SAND 3) and enough BONDCRETE admixture (BONDCRETE 1: WATER 10) to make required consistency.

Sealing

While surface is damp but not wet, apply a sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 6). Allow to dry for at least 24 hours.

Sealing

Apply a second sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) to the DRY surface. If considered necessary a third coat may be applied the following day.
APPLICATION

BONDCRETE as a sealer and key to porous surfaces before applying water borne decorative paints.

Sealing

One sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) will provide an excellent Sealer or Key when applied to new or old Cement Rendered Walls, Plaster etc, before using water borne Decorative Paints (see paint manufacturers instructions). This Sealer is inexpensive and you will use less Paint. Allow 24 hours to dry. Do not attempt to apply oil based paints over BONDCRETE.

\[
\text{MIX} \quad (\text{BONDCRETE} \times 1) + (\text{H}_2\text{O} \times 4)
\]
BOND CRETÉ as an adhesive for carpentry, joinery and general craftwork.

Adhesive

Apply direct from container to one surface only. Press surfaces together and lightly clamp. BOND CRETÉ sets in approximately 30 minutes. Maximum strength is attained in 12 hours.
BONDCRETE for dust proofing and/or retarding oil penetration of interior concrete floors.

Sealing
To a thoroughly clean floor apply with a Broom, Brush or Roller, a sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 6). Leave to dry for approximately 12 hours.

\[
\text{MIX} \quad (\text{BONDCRETE} \times 1) + (\text{WATER} \times 6)
\]

Sealing
Apply another sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) and allow to dry.

\[
\text{MIX} \quad (\text{BONDCRETE} \times 1) + (\text{WATER} \times 4)
\]

Sealing
A third coat maybe added for better oil retardation. BONDCRETE will dry clear; binding surface particles together and produce a very pleasing smooth hard surface.

Notes
Do not seal floor with BONDCRETE if you intend to utilize an oil based paving paint or similar floor.
**APPLICATION**

**BONDCRETE** cement paint.

**Adhesive**

Oil, grease, mould and loose material should be removed prior to application. Mix only sufficient material that can be used in 40 minutes and allow to dry over night. Seal surface with diluted BONDCRETE (BONDCRETE : WATER 4).

\[ \text{MIX} \quad (\text{BONDCRETE} \times 1) + (\text{H}_2\text{O} \times 4) \]

**Cement Painting**

Mix diluted BONDCRETE (BONDCRETE : WATER 2) with 3 parts fresh Cement and apply by Roller to a lightly dampened surface to clean up old discoloured Concrete. Add oxide for coloured finishes.

\[ \text{MIX} \quad (\text{BONDCRETE} \times 1) + (\text{H}_2\text{O} \times 2) + (\text{C} \times 3) \]
Sealing

Surfaces to be coated with limewash should be sealed with diluted BONDCRETE (BONDCRETE 1: WATER 4).

\[
\text{MIX} \quad (\text{Bondcrete} \times 1) + (\text{H}_2\text{O} \times 4)
\]

This should be allowed to dry properly before limewash is applied.

Limewash

For approximately 20 litres of limewash: To 13L water in 20L plastic pail, add 4L Bondcrete and mix well. Slowly add 6kg lime, which has been sieved through a fine mesh and mix well to a smooth paste with a broad blade. Next add 200mL mineral turpentine and stir well to obtain a smooth consistency.

Next add 1L of water and stir thoroughly to give a smooth easily mixed light gel, which gives better brush penetration. Pastel colours can be obtained by the addition of oxide pigments at about 25 grams per litre of mix depending on shade required. The pigment should be well mixed to a smooth paste consistency in a small quantity of limewash prior to addition.

Limewash should be allowed to stand preferably overnight and remixed prior to use. Some settlement is to be expected but this is easily remixed. Easier application of the second or subsequent coats and reduced cracking is achieved by damping down the surface with clean water.

Coverage 8-10 square metres per litre, depending upon surface.
APPLICATION

BONDRETE for bedding mortars for roofing tiles, ridge caps and other glazed masonry, terracotta and earthenware type surfaces.

Bedding

Using diluted BONDRETE (BONDRETE 1: WATER 6) prepare a Sand and Cement Mortar and use for Bedding, Pointing, Patching and Jointing. Colour with Oxides if required.

\[ \text{MIX} \quad (\text{BONDRETE} \times 1) + (\text{H}_2\text{O} \times 6) \]
BONDCRETE to resurface old wooden sills and step treads affected by weathering etc.

Sealing

Apply a sealing coat of diluted BONDCRETE (BONDCRETE 1: WATER 4) and allow to dry.

\[
\text{MIX} \quad (\text{Beton} \times 1) + (\text{Wasser} \times 4)
\]

Bondcoat

Apply a bondcoat of diluted BONDCRETE (BONDCRETE 4: WATER 1)

\[
\text{MIX} \quad (\text{Beton} \times 4) + (\text{Wasser} \times 1)
\]

While this coat is still wet, prepare a mixture (SANDPAPER SAWDUST 6: CEMENT 3 : SAND 2) mixed to rendering consistency with diluted BONDCRETE (BONDCRETE 1: WATER 4). Apply it with a Steel Trowl. Finish off with a Wooden Float and lightly trowel to a smooth finish. Allow to dry.

\[
\text{RENDER} \quad (\text{S} \times 6) + (\text{C} \times 3) + (\text{S} \times 2)
\]

\[
\text{ADMIX} \quad (\text{Beton} \times 1) + (\text{Wasser} \times 4)
\]

Brushcoat

Apply a brushcoat of diluted BONDCRETE (BONDCRETE 1:WATER 4).

\[
\text{MIX} \quad (\text{Beton} \times 1) + (\text{Wasser} \times 6)
\]
The solution.

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