Corrobond PVA
Polyvinyl acetate polymer bonding agent

Product Features

Corrobond PVA is a milky white, latex polymer, based on polyvinyl acetate that is designed to improve the physical properties and integrity of cementitious mortars, screeds or renders, and act as a bonding agent / sealer to concrete, plaster or other porous substrates.

Corrobond PVA improves bonding, durability, compressive, tensile and flexural properties of modified mixes, making it suitable for horizontal or vertical applications on INTERNAL APPLICATIONS ONLY.

Typical Uses

Corrobond PVA is highly versatile and can be used for a variety of applications including filling of hairline cracks, as a bonding agent, primer and integral admixture for sand / cement mortars, screeds and renders, bedding of tiles and other general concrete reconstruction work and sealing of porous surfaces such as floor screeds or renders prior to other finishes.

Corrobond PVA should not be used externally or in areas subject to permanent dampness or wet / dry cycling.

Directions for Use

Preparation

Concrete & masonry
Long term durability and function can only be achieved with good preparation to give a strong adhesive & mechanical bond to the substrate.

Damp concrete is permitted however all standing water & puddles must be removed prior to the application of Corrobond PVA.

For small repairs:
Mark the extremity of the repair area and saw cut to a minimum depth of 10 mm to define the area to be removed. Chip out the area within the saw cut back to sound concrete, to a minimum depth of 10 mm ensuring no feather edges and a good mechanical key for the subsequent repair.

If steel reinforcement is exposed, continue to break out the concrete to at least 15 mm behind the bars.

Mechanically prepare concrete surfaces preferably by grit blasting or grinding to remove laitance, curing compounds and other loose materials to provide a mechanical key for the subsequent product.

If formwork is required, ensure it is well constructed and has a suitable release agent such as Corrorelease WB to facilitate easy demoulding.

For all applications:
Thoroughly soak concrete and masonry substrates with clean water for at least 1 - 2 hours, removing standing and excess water prior to priming with Corrobond PVA.

Priming

Concrete & masonry
Apply a bonding coat comprising 3 parts OPC, 1 part water and 1 part Corrobond PVA to the pre-soaked concrete surface. Apply the subsequent PVA modified screed or mortar 'wet on wet' to the bonding coat.

DO NOT LET THE BONDING COAT DRY.

Work the primer well into the concrete surface using a stiff brush to give an even, continuous, unbroken coating.

Simply re-prime if the primer coat has dried.

Mixing

Dry blend the sand, cement and aggregates together in the mixer in accordance with the mix design guidelines below:

Guide to Corrobond PVA mixes

<table>
<thead>
<tr>
<th>Application</th>
<th>OPC (Kg)</th>
<th>Sand (Kg)</th>
<th>4 - 6 mm aggregate (Kg)</th>
<th>Corrobond SBR (litres)</th>
<th>Potable water (litres)</th>
<th>Approx yield (litres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonding slurry</td>
<td>50</td>
<td>0.0</td>
<td>0.0</td>
<td>10.0</td>
<td>14.0</td>
<td>40.0</td>
</tr>
<tr>
<td>Patch repair</td>
<td>50</td>
<td>125.0</td>
<td>0.0</td>
<td>10.0</td>
<td>6.0</td>
<td>79.0</td>
</tr>
<tr>
<td>Render, 5 - 12 mm</td>
<td>50</td>
<td>150.0</td>
<td>75.0</td>
<td>10.0</td>
<td>5.0</td>
<td>87.0</td>
</tr>
<tr>
<td>Heavy duty floor</td>
<td>50</td>
<td>75.0</td>
<td>0.0</td>
<td>1.0</td>
<td>6.0</td>
<td>88.0</td>
</tr>
<tr>
<td>surface sealer</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>1.0</td>
<td>3.0</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Technical Data

| Solid Content     | : 10±2 (± 1%) |
| Specific Gravity  | : 1.01 ± 0.02 |
| Viscosity @ 20°C  | : 300 - 1500 cps |
| Appearance        | : Milky White |
| Minimum film forming temperature | : 5°C |
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Accurately measure the Corrobond PVA & drinking quality water, then add to the dry blend, & mix continuously for 4 - 5 minutes until the required consistency is achieved.

Application

Apply the mixed material onto the prepared surface using a steel trowel, plastic float or wooden float. Spread out and tamp or compact onto the primed surface to a minimum thickness of 5 mm.

Finish with a plastic float, wood float or steel trowel depending on the surface texture required.

Subsequent layers can be applied to the first layer after approximately 12 hours. The first layer should be scratch keyed to assist with bonding. No further pre-soaking or priming is required between layers.

This product can be applied using pumping equipment however we recommend using trained specialist applicators in the use of equipment and the product mix design to carry out the application.

It is recommended to do on site trials to assess the actual coverage rates that can be achieved prior to commencement of the works.

Expansion joints must be reflected through the repair or screed and preferably sealed with a sealant from the Corroseal range.

We recommend construction joints be introduced at thresholds or perimeters, and joints induced to give a maximum bay size of 40 m² in accordance with BS 8204 – Screed bases & in-situ flooring.

Please contact the Corrotech office for the contact details of specialist applicators for this product.

Curing

Curing is essential for all cementitious products to prevent possible shrinkage cracks and ensure the performance characteristics of the product are achieved.

The duration for curing will depend on the applied thickness and ambient conditions. Typically for thickness of 10 – 25 mm, allow at least 4 – 7 days curing using one of the Corrocure range, applied immediately after initial hardening of the product or removal of any formwork.

Thicker sections may need up to 28 days curing depending on the ambient conditions, however subsequent floor finishes should only be applied when the residual relative humidity (RH) has reached 75% or less.

Please consult with Corrotech regarding the compatibility of Corrocure with the subsequent finishes to be used, as this may help reduce preparation.

Hot Weather Conditions

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment.

Avoid exposure of mixed & unmixed materials to direct sunlight.

Use iced water for mixing.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

Cleaning

Clean tools & equipment immediately after use with detergent and water.

Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendations.

Avoid application if the work area may be subject to the onset of rain or moving water.

Additional coating protection should be applied if the product is exposed to chemicals.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

The product should not be thinned with any type of solvent under any circumstances.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

Estimating

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Corrocure AR pack size: 20 & 200 litres. Coverage rate approximately 5 m² per litre
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**Corrobond PVA** pack size: 5, 20 & 200 litres. Coverage rate as per the mix designs above.

**Health & Safety**

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

**Storage**

**Corrobond PVA** has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.