DESCRIPTION
Davco Bonding Agent 9 is a styrene-butadiene polymer latex with high bonding characteristics. It is stable under wet alkaline condition forming a reinforcing polymer matrix within cementitious mixes.

USES
Davco Bonding Agent 9 is used for bonding new to old concrete. It is designed to be used as an additive to cement and sand mortar to produce thick bed mortar for rendering or screeding. It can be used as a thin-bed adhesive for tile bedding and grout filling.

ADVANTAGES
• Dramatically improves the adhesion bonding of cementitious mixes.
• Effective plasticizer giving increased workability and cohesion. Allows reduction in water content to improve durability and strength without loss of workability.
• Excellent waterproofing admixture which is alkali stable in cementitious mixtures.
• Reduces shrinkage and cracking in repair and screeding mixes. Good freeze thaw resistance.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White Liquid</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.02 ± 0.01 at 25°C</td>
</tr>
<tr>
<td>pH Value</td>
<td>8.5 - 9.5</td>
</tr>
<tr>
<td>Particle Size</td>
<td>0.20 microns</td>
</tr>
<tr>
<td>Bond Strength (ASTM C190-1985)</td>
<td>≥ 1.0 N/mm²</td>
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<tr>
<td>Shear Bond Strength (ASTM C1042:1999)</td>
<td>≥ 2.8 N/mm²</td>
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</tbody>
</table>

METHOD OF USE
Surface Preparation
The surface must be clean and free from dust, debris and oil. Remove all laitance, oil, grease, mould oil or curing compound from concrete surface before application. For large areas, mechanical scrubbing is recommended.

1) Bonding Coat
Provision of bonding coat to concrete, masonry or brick surfaces to accept cementitious renders, screeds or repair mixes. Davco Bonding Agent 9 can be applied on surface by brush as bonding coat.

Use a stiff brush to apply a thick coat to the damp surface. Application of concrete renders and mortars should not take place while the bond coat is still wet. Allow the bond coat to dry overnight.

Cement     | 2 parts by weight
Davco Bonding Agent 9 | 1 part by weight
Coverage (2 mm thick) | 0.2 - 0.6 kg / m²

2) Adhesive Mortars
Davco Bonding Agent 9 can be applied on the substrate surface before conventional or prepacked tile adhesive is being applied. Davco Bonding Agent 9 can also be for cement and sand adhesive mortars.

Mix Davco Bonding Agent 9 with water, followed by sand and cement, until a cohesive mixture is obtained.

Dampen the receiving substrate and back of the brick or tile. Apply a bond coat to substrate. Then apply a 5 - 6 mm render over the wet bond coat using a notched float. Press the brick or tile into the render. The same mix should be used later to grout up.

Cement     | 50 kg
Sand (Medium) | 75 kg
Davco Bonding Agent 9 | 12 litres
Water      | 3 - 4 litres
Wet Density | 2100 kg / m³
Coverage (per mm thick) | 2.1 kg / m²

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.
3) Floor Patching: Concrete Repair
Used for reinstatement of old floors, floor patching and general purpose concrete repair and renders.

Dampen the receiving substrate. Apply a bond coat while the substrate is still wet. Place the screed, repair or render mix using a wooden float to apply and compact. Repair mixes are best placed at a semi-dry consistency. Finish the mix with steel float. Good curing is essential to prevent drying and cracking.

Thickness 5 - 15 mm 10 - 50 mm
Cement 50 kg 50 kg
Coarse Clean Sand 125 kg 100 - 200 kg
Granite 3 mm - 0 - 100 kg
Davco Bonding Agent 9 10 litres 10 litres
Water 5 - 10 litres 5 - 10 litres
Density 2200 kg/m³ 2250 kg/m³
Coverage 33 kg/m² 34 kg/m²

4) Waterproof Renders
Used for sealing and waterproofing concrete water tanks, basements and exterior foundation tanking.

After surface preparation and wetting, apply a brush coat of bonding mix horizontally. When almost touch dry, apply a second coat vertically. Each coat should be 1 mm thick. Lightly scratch the surface of the second coat when nearly touch dry and leave for 24 hours to cure.

Apply a further bond coat while it is still wet, towel on the render coat at a thickness up to 10mm. Additional render coats can be applied as required at 1 - 2 hours intervals. Close up the final coat with a steel finishing float.

Cement 50 kg
Coarse, Clean Sand 125 kg
Davco Bonding Agent 9 10 litres
Water 5 -10 litres

5) Floor Screeds
Levelling of uneven floors, large area patching, abrasion resistant screeds to heavy duty areas. Spreading the mixed polymer modified screed mortar using a rake or screeding bar. Level to the desired thickness by manually compacting with a wooden float, using a screed lath to control the thickness. Wood float the finish, or seal the surface by trowelling with a steel float. Cure with polythene sheeting or apply 2 coats of curing compound.

Cement 50 kg
Coarse, Clean Sand 100 kg
Granite 3 mm 100 kg
Davco Bonding Agent 9 7 - 9 litres
Water 5 - 10 litres
Density 2200 kg/m³
Coverage (12mm thickness) 26 kg/m²

PACKAGING
25 Litres & 208 Litres.

SHELF LIFE
Davco Bonding Agent 9 is a stable product which is non-flammable. It should be stored in cool and dry condition. Protect the product from heat. The shelf life of this product is up to 12 months from the date of manufacture.

HEALTH & SAFETY
Davco Bonding Agent 9 is non-toxic. However it is recommended that care is taken when handling it. Skin and eye contact should be avoided. Gloves and eye protection must be worn at all times. In case of eye contact, wash thoroughly with clean water and seek immediate medical attention. Refer to safety data sheet.

Disclaimer
The use of this product is beyond the manufacturer’s control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subjected to changes without prior notice. Before application, customers and users are requested to check that they have the latest version of this document from our website www.parexgroup.com.sg

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