

Estobond P

Acrylic Emulsion Bonding Agent

Description

Estobond P is a single component white, milky emulsion based upon modified acrylic type resins.

It is formulated as a bonding agent for concrete repair and cement modifier for plastering purposes.

Uses

Estobond P is a bonding agent for Estopatch concrete repair system. It may also use as bonding agent for concrete and cement/sand mortar.

Advantages

- Single component.
- Long open times, designed for ease of use under site condition.
- Excellent bond strength between polymers modified mortars and concrete.
- Cost effective and economical in use
- Can be used as curing membranes for Estopatch material.
- Water resistant, can be used internally and externally with complete safety.

Standards Compliance

- **ASTM C 190**
- **BS 6319**
- **BS 5350: Part C15:1990**

Physical Properties

Specific Gravity	1.00 – 1.03
Bond Strength In Compressive Shear, kN BS 5350:Part C15:1990	> 5

Application instructions

(A) As a bonding agent

Preparation

It is recommended that all repair areas should be defined by a 10mm saw cut to avoid “feather edging” of the repair mortars. Finally pre-soak the repair zone with copious amounts of clean water preferably for a minimum of 1 hour prior to application of the **Estobond P**. Remove excess surface water with a stiff brush.

Mixing

Estobond P is supplied ready for use. Do not dilute with water or solvents of any kind. Pour milky liquid into suitable container ready for application onto previously prepared substrate.

Application

Estobond P is simply applied by brush ensuring the complete surface is wetted out. Use of a “stippling” action rather than a “painting” action is recommended. The Estopatch repair mortars or concrete should be applied immediately.

Warning

Do not over apply **Estobond P** as slippage of the repair mortar may occur in high build applications.

In vertical and overhead applications, whilst laboratory tests show that bond strengths are not greatly affected even after **Estobond P** is allowed to dry for 24 hours, practical difficulties of maintaining compaction onto the dry primer layer will reduce the build which can be achieved with Estopatch material. It is recommended therefore that should **Estobond P** dry longer than 8 hours at 20°C, a fresh coat be applied.

(B) As a cement modifier

Estobond P is used as cement modifier to improve the properties of patching mortars and renders.

The recommended mix designs

OPC:	50 kg
Zone 2 sand:	150 kg
Estobond P:	10 - 15 litres
Water:	add sufficiently to give required consistency

Typical results of above mixing mortar:

Compressive Strength (N/mm ²), BS 6319	
Control	35
Treated with Estobond P	40
Tensile Strength (N/mm ²), ASTM C109	
Control	4.0
Treated with Estobond P	4.5
Flexural Strength (N/mm ²), BS 6319	
Control	8.0
Treated with Estobond P	11.0
Adhesion to Concrete (N/mm ²) - Slant Shear Bond, BS 6319	
Control	5.0
Treated with Estobond P	20.0

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Packing & Size

Estobond P	200 litre drum 20 litre pail
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Coverage

Estobond P	5 - 7 m ² per litre depend on porosity of substrate
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Technical Support

Denka offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Storage

Store in dry & covered condition. **Estobond P** has a shelf life of 12 months in an unopened container.

If stored in extreme heat condition, the shelf life may be reduced.

Precaution

Estobond P is non-toxic. It is slightly alkaline; therefore, skin contact shall be avoided. Wear gloves and protective clothing.

Additional Information

Denka Construction Solutions Malaysia Sdn Bhd offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.



Denka Construction Solutions Malaysia Sdn Bhd
(591858-U)

No. 18, Jalan Utas 15/7, Seksyen 15,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +603 5510 8810 Fax: +603 5518 8202
www.denka-cs.com

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