

BUTABOND AR

Acrylic emulsion cement modifier and water based concrete bonding agent



Description:

BUTABOND AR is a modified acrylic emulsion specially designed for use as a bonding aid and gauging liquid for cementitious systems. It is resistant to hydrolysis and can therefore be used for external applications. BUTABOND AR is the recommended primer for the Redwop cementitious repair system. It cure mortars using to prevent rapid drying out also Protect uncured mortar from frost and rain.

Uses:

- Primer for Redwop cementitious repair system
- For improving and bonding floor toppings, renders and mortars
- Repair of worn, damaged or spalled concrete
- Polymer modified floor screeds

Advantages:

- Ease in use as it is a single component
- Provides excellent bond to concrete, masonry, stone work plaster and block board
- Improves tensile and flexural Properties of mortar
- Allows thin section applications
- Compatible with all common hydraulic cements
- Economical to use

Company Standard Compliance:



Technical Information:

Properties	Curing Condition	Control	BUTABOND AR
Compressive Strength N/mm ²	Dry	35	40
	Wet	30	30
Tensile Strength N/mm ²	Dry	4.0	4.5
	Wet	3.0	3.5
Flexural Strength N/mm ²	Dry	8	11
	Wet	7	9
Adhesion to concrete	Dry Wet	5	20

Application Procedure:

Surface must be free of dust, oil, laitance and all other kind of foreign materials. All surfaces so treated should be thoroughly washed with clean water. Smooth substrates must be mechanically roughened e.g. by scabbling, needle gun or grit/ sand blasting to provide a mechanical key.

Immediately before priming, the concrete substrate should be thoroughly dampened with water and any excess being brushed off. Scrub BUTABOND AR into the substrate. Avoid puddling of the emulsion. The repair mortar /topping should be applied whilst the primer

is still tacky. However a satisfactory bond can be achieved up to 15 mins. After application at 30°C.

Typical Mix designs to modify mortars:

1. OPC 50 kg
2. Zone 2 sand 150 kg
3. BUTABOND AR 8 - 10 liters
4. Water Add sufficient water to give required consistency

(Trials are recommended to optimize mix designs)

All applications shall be wet on wet. For best results BUTABOND AR should be allowed to become tacky.

Benefits:

- **As a bonding agent:**

The bonding agent shall be BUTABOND AR an acrylic based emulsified solution. The bonding agent shall provide adequate bond strength when directly applied on concrete and also mixed with neat cement.

- **As a mortar modifier:**

The mortar modifier shall be BUTABOND AR, an acrylic emulsified cement modifier which provides good bond with concrete / masonry and improves the flexural strength, tensile strength properties of the mortar when added in the specified quantities. It shall be compatible with all common hydraulic cements.

General recommendations

For repairs

- Prepare surfaces thoroughly as previously recommended Cut back edges to avoid feather edging. Prime all surfaces including edges, using BUTABOND AR.
- All applications shall be wet on wet. For best results BUTABOND AR should be allowed to become tacky. If the bonding agent is allowed to dry for more than 15 minutes at 30°C initial 'grab' to the repair mortar will be reduced. Therefore, the use of temporary shuttering is recommended. Water content of the mortar should be kept to the minimum necessary.

- For consistent results, the use of clean, dry sand is recommended. Where the use of wet sand is unavoidable, the quality of water to be added must be reduced.
- Cure mortars using BUTABOND AR to prevent rapid drying out.
- Protect uncured mortar from frost and rain. Do not retemper mortar after initial set.
- Minimum application temperature for BUTABOND AR is 10°C, but the mortar should not be applied if the temperature is expected to fall.
- For permanently immersed conditions consult REDWOP office.

Limitations:

- As a bonding agent BUTABOND AR may exhibit less overlay time at higher temperature. In such cases as overlay mortar shall not be applied when BUTABOND AR is totally dry.
- BUTABOND AR when used as bonding agent cannot act as a barrier coat against ingress of chloride ions from the substrate.

Equipment cleaning:

Immediately after use, wash all tools with clean water.

Coverage:

Approximately 6 - 8m²/ litre depending on substrate

Packaging:

BUTABOND AR is supplied in 5, 20, 50 & 200 liter plastic containers.

Storage & Shelf-life:

12 months at room temperature if kept unopened and it should be protected from frost.

Health & Safety:

BUTABOND AR is non toxic. However it should never be ingested and if it comes into contact with eyes, wash immediately with plenty of water and seek medical treatment. BUTABOND AR is slightly alkaline. Skin contact should be avoided. Gloves and protective clothing should be worn.

Fire:

BUTABOND AR is non flammable.



It is the practice of increasing efficiency with which buildings use resources- energy, water and materials-while reducing building impacts on human health and the environment.



ISO 45001 is the world's international standard for occupational health and safety, issued to protect employees and visitors from work-related accidents and diseases.



ISO 9001:2015 is a globally recognized standard for quality management systems (QMS). It helps organizations of all sizes and sectors to: Improve performance, Meet customer expectations, Demonstrate commitment to quality, and Identify and improve processes that lack consistency.



ISO 14001 is the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance



This symbol is used to identify Redwop products which give off a low level of volatile organic compounds(VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



Our Commitment To The Environment Redwop products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.



ISO/IEC 17025 enables laboratories to demonstrate that they operate competently and generate valid results, thereby promoting confidence in their work both nationally and around the world.

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REDWOP CHEMICALS PVT. LTD.

Head Office Regd. Office: 2nd Floor, Pearlplaza Complex, Nr. GT Sheth School, 150 ft. Ring Road, Rajkot Gujarat 360005 India

✉ info.redwop@gmail.com 🌐 <http://redwop.net> ☎ 9724655551 📞 0281 2576664