

Expanbond* AR



CONSTRUCTION CHEMISTRY

Acrylic emulsion primer and bonding agent for concrete repair

Uses

Recommended primer and bonding agent for the Expanmortar Cementitious Repair System.

Advantages

- Single component
- Simply brushed onto concrete as a primer
- Provides excellent bond to concrete, masonry, stonework, plaster and block-board
- Suitable for use in Middle East conditions
- Can also be used as a curing membrane for localized patch repairs
- Economical in use

Description

Expanbond* AR is a modified acrylic emulsion, specially designed for use as a bonding aid and curing agent for concrete repair systems. It is resistant to hydrolysis and can therefore be used for external application.

Standards compliance

BS 6920 - Approved for use with potable water

Technical support

Expanchem Fospak offers a comprehensive range of high performance, high quality construction products. In addition, Expanchem Fospak offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

Properties

Slant shear adhesion

(BS 6319 Pt 4; 1984)

Typical result with AR : 9.0 N/mm²

Curing efficiency

BS 7542: 1992 : > 55%

Instructions for use

Surface preparation

Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae. Where breaking out is not required, roughen the surface and remove any laitance by light scabbling or grit-blasting.

Expose fully any corroded steel in the repair area and remove all loose scale and corrosion deposits. Steel should be cleaned to bright condition paying particular attention to the back of the exposed steel bars. Grit-blasting is recommended for this process.

Reinforcing steel priming

Apply one full coat of Expanprime* Zincrich to all exposed steel reinforcement and allow to dry prior to continuing. If any doubt exists about having achieved an unbroken film, a second application should be made and allowed to dry prior to continuing.

Application of bonding aid

The substrate should be thoroughly soaked with clean water with any excess removed prior to commencement of the works.

Scrub Expanbond* AR into the substrate, avoid ponding and remove any excess. The repair mortar or topping should be applied whilst the primer is still tacky.

Curing

Cure the repair mortar or topping using Expanbond* AR to prevent rapid loss of water. In severe drying conditions additional curing methods may be necessary. Protect uncured mortar from frost and rain.

Cleaning

Expanbond* AR should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

Limitations

Expanbond* AR mortars, toppings and renders should not be used when the temperature is below 5°C and falling. Neither should they be exposed to moving water during application. Exposure to heavy rainfall prior to the final set may result in surface scour. If any doubts arise concerning temperature, application or substrate conditions, consult the local Expanchem Fospak office.

Expanbond* AR should not be used as a curing compound when over-coating with epoxy coatings are required.



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Estimating

Supply

Expanbond* AR : 1 and 5 liter cans

Coverage and yield

Expanbond* AR : 6 - 8 m² / liter as a primer
4 to 5 m² / liter as curing agent

Storage

Shelf life

All products have a shelf life of 6 months at 20°C if kept in a dry store in the original, unopened containers.

Precautions

Health and safety

Cementitious mortars modified with Expanbond* AR contain cement powders which, when mixed or become damp release alkalis which can be harmful to skin. During use avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.

The use of barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream followed by soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

Fire

Expanbond* AR is non-flammable

* Denotes the trademark registered.

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