

Bondex™

Waterproofing and bonding admixture for cement based screeds



“maintenance made easy”



PRODUCT DESCRIPTION

Bondex is a styrene butadiene co-polymer admixture designed to increase the bond strength when used in cementitious mixes, at the same time improving resistance to water, chemicals and freeze/thaw cycles due to reduced permeability. Bondex enhances the flexural and tensile properties of the mix enabling thin sections to be applied.

TYPICAL USES

Bondex is a versatile product ideal for use both as a primer for cementitious screed and repairs, and as an admixture for floor screeds, renders and repair mortars. It is suitable for interior and exterior use.

SUITABLE SUBSTRATES

The use of Bondex gives sand/cement mixes high bond strength to concrete, masonry and reinforcing steel.

COLOUR

Bondex is milky white in appearance and translucent once cured.

PACKAGING

Bondex is supplied in 5L units or 25L drums.



PHYSICAL PROPERTIES

Strength	Wet Mix	Dry Mix
Compressive	31.2N/mm ²	31.2N/mm ²
Flexural	9.6N/mm ²	10.6N/mm ²
Tensile	3.9N/mm ²	3.9N/mm ²

DIRECTIONS FOR USE Cont.**SURFACE PREPARATION****THOROUGH SUBSTRATE PREPARATION IS ESSENTIAL.****Recommended methods are:**

For floor screeds – remove all weak or loose material and provide a mechanical key to smooth concrete by means of scabbling or shot-blasting. If this is not possible, chemically etch the floor with *Polycote Etch IT* followed by thorough rinsing.

The abrasive effect of jet washing can assist in preparation and is recommended where appropriate. Ensure the surface is clean and free of loose material, oil or grease. Degrease if necessary using *Polycote Degrease IT* followed by thorough rinsing.

For patch repairs – concrete repairs should be prepared with squared off edges having a 6mm vertical lip.

Remove all loose material – wire brushing is advisable.

Remove any oil contamination from the surface using a gas torch and/or *Polycote Degrease IT*.

Expose any reinforcing steel and clean any rust back to bright metal, then prime with *Bondex*.

PRIMING

Dampen the surface with water to reduce suction.

Add 2 parts ordinary Portland Cement to 1 part *Bondex* and apply by brush to prime the surface.

The sand/cement mix must be placed whilst the primer is still **TACKY – NOT DRY** to ensure adhesion.

Should the cement/*Bondex* primer become dry before material is placed, re-prime the area. The coverage of cement/*Bondex* primer mixed 2:1 is 2-3m² per litre depending on surface texture and porosity.

BONDEX SAND & CEMENT MIXES

The standard mixing ratio for screeds or patch repairs is 25kgs cement and 75kgs sharp sand per 5L unit of *Bondex*. Water may be added to the mix to achieve the desired consistency.

APPLICATION

Having primed the area, place the *Bondex/Sand/Cement* mix by trowel before the primer has dried. Allow INITIAL cure before finishing the surface with a steel trowel – if this is attempted too early, surface crazing may occur.

CURING

The *Bondex/Sand/Cement* mix should support light traffic after approximately 48 hours, depending on temperature. Full strength is achieved within 28 days.

At higher temperatures, the curing process should be retarded by water-spray and covering with polythene sheeting, damp sand or wet hessian for 24 hours.

APPLICATION TEMPERATURE

Bondex mixes should not be applied below 5°C.

APPLICATION THICKNESS

The recommended thickness range for *Bondex*-based sand/cement is 6mm minimum to 40mm maximum in one layer.

COVERAGE

The coverage per 5L unit of *Bondex* when mixed with 25kg cement and 75kg sharp sand is approximately 9.5m² at 6mm nominal thickness.

CLEANING

Tools and equipment should be cleaned whilst material is still wet using clean cold water.

Hands and skin should be cleaned immediately with Organic Hand Cleaner.

SHELF LIFE AND STORAGE

The shelf life of *Bondex* is 12 months subject to being stored in dry, frost-free conditions at temperatures between 5°C and 35°C.

HEALTH & SAFETY

Before using this product, please ensure you have received and read carefully both the Hazard Label applied to the container and the relevant Material Safety Data Sheets.

ANY QUESTIONS?

Polycote Technical Helpline
01234 846400

All reasonable care has been taken in supplying the above information. However, any figures quoted do not constitute a specification but represent typical values obtained. It is the customer's responsibility to ensure for himself that the product is fit for the intended purpose and that conditions are suitable. Any technical advice is offered in good faith, but without warranty. This is also applicable when proprietary rights and third parties are involved. In the light of the Company's policy of continual research and development, it is the customer's responsibility to ensure that the information contained herein has not been superseded.

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