

# Cem-Add SB

Polymeric liquid additive and performance enhancer for cementitious adhesives and plasters



## Description

Cem-Add SB is a single component polymeric liquid that is designed to improve the performance and the physical properties of the cementitious adhesives and plasters.

Due to its unique composition, mixing Cem-Add SB with Cemfix, Thermofix and Proplast range of products will significantly enhance the physical characteristics of these products without any adverse effects on the application and the workability of them.

## Applications

Cem-Add SB is ideally designed for use in the following applications:

- ▲ As an additive to Cemfix range of tile adhesives where enhanced bonding to various substrates is required.
- ▲ As an additive to Thermofix range of external wall insulation plasters in order to enhance the bonding characteristics.
- ▲ To enhance the performance of the Proplast range of cementitious leveling plasters.
- ▲ As a primer for absorbent surfaces.
- ▲ As an additive for permanent installation of large format tiles (e.g. above 40 x 40 cm).
- ▲ As an additive for permanent installation of impervious tiles in continuously submerged areas (e.g. swimming pools and fountains).

## Advantages

- ▲ Effectively increases the bonding/adhesion of cementitious adhesives and plasters.
- ▲ Significantly enhance the waterproofing characteristics of the cementitious materials.
- ▲ Effective plasticizer, giving improved workability and cohesion.
- ▲ Improved mechanical and physical properties of the cementitious mixes such as the tensile strength, flexural strength, bond strength as well as the deformability characteristics.
- ▲ Reduces shrinkage and cracking in the cementitious materials.
- ▲ Improved the freeze/thaw resistance.
- ▲ Chloride free.

## Technical Properties @ 25°C:

Active solid content:	48 - 50 %	
Specific gravity:	1.0 ± 0.1	
Colour:	White	
Bond strength by slant shear:	<b>Cem-Add SB</b>	<b>ASTM C1059 requirement</b>
Type I (dry)	≥ 7 MPa	2.8 MPa
Type II (after immersion)	≥ 16.0 MPa	8.6 MPa

## Standards

Cem-Add SB complies with ASTM C1059-99, Type 1 & 2, when tested in accordance with test method C1042.

## Method of Use

### Substrate Preparation

The substrate should be sound, clean and free from contamination. Surface laitance should be removed by mechanical means.

Gypsum boards, plaster boards, anhydrite screeds, or any highly absorbent cement based substrates must be primed with Keybond 2000 diluted with water at a ratio of 1:2 by volume (1 part Keybond 2000 to 2 parts water).

## Mixing

*With Cemfix Range:*

Dilute Cem-Add SB with mixing water by 1:2 ratio.

*With Thermofix Range:*

Dilute Cem-Add SB with mixing water by 1:3 ratio.

*With Proplast Range of cementitious plaster:*

Dilute Cem-Add SB with mixing water by 1:1 ratio.

*Note: Products mixed with Cem-Add SB will have a slightly reduced open time in hot climates.*

# Cem-Add SB

## Application

*When mixed with cementitious adhesives:*

Apply the mix on the substrate with notched trowel. Choose the trowel that provides a contact area between the tile adhesive and the substrate not less than 80% contact in areas subject to light foot traffic and 100% contact for outdoor areas, submerged conditions and heavy traffic situations.

Best adhesion will be obtained by applying a thin coat of the mix onto the substrate using a flat side trowel then comb the adhesive with the notched side horizontally to achieve a bed thickness of 2 - 5 mm.

*When mixed with cementitious plaster:*

The mixed material should be applied by a trowel using firm pressure to fully compact the plaster and ensure good adhesion to the substrate.

Finishing and leveling should be carried out initially by aluminum straight edge or steel float. Final finishing should be carried out using a slightly water dampened plastic or wooden float.

## Cleaning

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

## Packaging

Cem-Add SB is available in 5, 25 and 200 litres drums.

## Storage

Cem-Add SB shelf life is 12 months if stored at temperatures between 5°C and 50°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

## Health and Safety

Cem-Add SB is non-toxic. Avoid skin and eye contact. Rubber gloves and eye protection should be worn all the times.

The use of barrier cream is recommended on exposed areas of the skin.

For further information refer to the Material Safety Data sheet.

## Fire

Cem-Add SB is non-flammable.

## More from Don Construction Products

A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

### Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

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