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SpEC

SpECbuild BA10

WATER RESISTANT ADDITIVE AND BONDING AGENT FOR CEMENT SYSTEMS

DESCRIPTION

SpECbuild BA10 is an SBR co-polymer latex, which has been specifically designed for use with cementitious mixes.

It can be used to form water and vapour resistant bonding coats, prior to application of renders, plasters or screeds. Due to its exceptional adhesive properties, it can be used to bond slip bricks, tiles, coping stones, kerb stones, etc., to a variety of substrates, including asphalt and glass. When incorporated into cement mortar mixes, it forms polymer modified systems which exhibit excellent adhesion, improved tensile, flexural, and compressive strengths, excellent resistance to water and water vapour and improved chemical resistance.

SpECbuild BA10 modified mixes are non-toxic and can be used in contact with potable water.

TYPICAL USES

SpECbuild BA10 modified mixes can be used for the following applications:

- Floor repairs
- Spalled concrete
- Bedding tiles
- Fixing slip bricks

TECHNICAL DATA

Compressive strength (BS 6319, Pt 2)	50 N/mm ²
Flexural strength (BS 6319, Pt 3)	7 N/mm ²
Water vapour permeability	Reduced by 96%
Adhesion	Excellent to concrete, steel, brick & glass
Chemical resistance	Resists mild acids, alkalis, sulphates, chlorides etc.
Shrinkage during cure	0.01%
Appearance	White liquid

Specific gravity 1.01 at 20°C

Solids 46%

For economical use, **SpECbuild BA10 30%** with 10% solids content is also available.

APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of **SpECbuild BA10** modified mixes.

Ensure the complete removal of all laitance, oil, grease, moulds oil, curing compounds etc. A wire brush, bush hammer, or for large floor areas, a captive grit blasting machine may be used. Ensure that reinforcing steel is clean and free from corrosion deposits, grease or oil. When repairing spalled or damaged concrete, ensure the substrate is cut back to sound material.

Bonding Slurry

Ensure that absorbent surfaces such as concrete, brick, stone etc., are well dampened down, ensuring the surface is wet but has no free standing water.

Prepare a bonding slurry consisting of 2 parts cement to 1 part **SpECbuild BA10**, mixed to a lump free consistency. Using a stiff brush, work the bonding slurry well into the dump surface ensuring that no pinholes are visible. Do not apply bonding slurry at thickness' in excess of 2mm.

It is important that **SpECbuild BA10** modified mixes are applied to a wet bonding slurry. If a second coat is necessary, it must be applied after allowing the first coat to dry.

Cement

SpECbuild BA10 is compatible with all types of OPC, sulphate resisting and high alumina cements.

Mixing

SpECbuild BA10 is supplied as a one-component kit.



Mixing should preferably be carried out in a concrete mixer although hand batching is permissible where the total weight of the mix does not exceed 25 kgs.

Charge the mixer with the required quantity of sand and cement, and premix for approximately one minute. Pour in the desired quantity of **SpECbuild BA10** and mix for 2 to 3 minutes. Finally, add the water little by little, until the required consistency is achieved. Due to the strong plasticising properties of **SpECbuild BA10**, it is best to add the water cautiously as rapid thinning can occur.

Curing

It is preferable to cure **SpECbuild BA10** modified screeds as soon as they are laid to prevent rapid evaporation of water essential for hydration. This can be achieved by using polythene, damp hessian, or a suitable concrete curing membrane, such as **SpECcure WE**.

EQUIPMENT CLEANING

All tools should be cleaned immediately after use using water, as on hardening the material can only be removed mechanically.

APPLICATION TEMPERATURE RANGE

Minimum	5 °C
Maximum	35 °C

At temperatures above this range the material should be stored in shade and cool water used for mixing.

PACKAGING AND YIELD

Available in 20 and 200 litre drums.

STORAGE AND SHELF LIFE

Indefinite in manufacturers sealed containers. Protect from frost. Avoid prolonged storage in excessive heat.

HEALTH AND SAFETY

Cementitious mortars and slurries contain cement powder which, when mixed or become damp, release alkalis which can be harmful to the skin.

During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment.

Eye contact

Rinse with copious amounts of clean water and seek medical attention.

Skin contact

Rinse with copious amounts of clean water followed by thorough cleaning with soap and water.

DO NOT USE SOLVENTS

Ingestion

Seek immediate medical attention.

DO NOT INDUCE VOMITING

SpECbuild BA10 modified mixes are non-toxic after cure and can be safely used in contact with potable water.

FLAMMABILITY

SpECbuild BA10 is not flammable.

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