



a.b.e.[®] Construction Chemicals abe[®] mortar clad

SINGLE-PACK, CEMENTITIOUS MORTAR CLADDING

DESCRIPTION

abe[®] mortar clad is a spray or trowel applied; single component; cementitious mortar cladding, exhibiting excellent trowelling, high bonding and compressive strength properties. It only requires addition of water on site to form a tough and flexible barrier layer providing protection and insulation.

USES

abe[®] mortar clad is specially formulated for use as a surface reinforced protection plaster. It is ideally suited where high durability, an impervious barrier and a protection layer to fiber cement, insulation boards, wooden paneling, rock surfaces and concrete walling is required.

- Plaster for boarded housing systems.
- Structural assistance for component walling systems
- Quick set repair material for honeycombed concrete.
- Repair material for concrete defective surfaces.

ADVANTAGES

- Non toxic and non flammable.
- Fast setting and high flexural strength properties.
- Good tensile strength when applied to most substrates.
- Can be spray or trowel applied.
- Offers high durability
- Paintable with high quality water based acrylic coatings
- Decreased permeability

SURFACE PREPARATION

All surfaces are to be clean, sound, free of oil, dust and friable material.

Porous surfaces should be pre-wetted prior to application of mortar. For excessive porous substrates an acrylic based primer should be used. For composite and fibre cement boards it is not necessary to prime as the mortar will adhere extremely well to these surfaces.

TYPICAL PHYSICAL PROPERTIES

Form	Cementitious powder
Colour	Grey and white
Pot Life	20 minutes
Setting Time – Final	Set < 2 hours @ 25°C
Application Thickness	2 to 10mm
Application temperature	5°C to 35°C
Flexural Strength	1 day - 6 MPa 3 days - 7 MPa
Compressive Strength	7 day - 7 MPa 14 days - 13 Mpa 28 days - 25 Mpa
Bond Strength to concrete	1 day - 0.41 MPa 7 days - 3.3 Mpa
Flammability (DIN 4102 – B2)	Self-extinguishing

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used.

Actual field performance will depend on installation methods and site conditions.

BONDING/PRIMING

Porous surfaces should be pre-wetted, no free water present, prior to application of the mortar.

For excessive porous surfaces an acrylic based primer should be used.

For composite and fibre cement boards it is not necessary to prime.

MIXING

Add 4 to 5.5 litres of water per 25 kg bag, depending on required application method. Gradually add the powder into the required water while mixing to avoid lumps forming, always add the powder to the water. Start with the minimum water requirement of 4 litres and then adjust up with additional water to obtain the required consistency determined by the application method. Mix thoroughly using a mechanical

mixer for 2 to 3 minutes until the desired homogeneous, lump free mortar paste is achieved. Slow mixing is required in order not to entrain air during the mixing process.

Never re-temper the mix, should the mortar stiffen up due to delays in application then discard the product and mix a fresh batch. Only mix full bag quantities at a time.

APPLICATION

abe® mortar clad may be hand trowelled or spray applied onto the prepared substrate. The compressed air used for spray applications must be oil free. Application by trowel is not dissimilar to gypsum finishing mortars.

CURING

No curing required but the surface should be protected from direct harsh sunlight and high winds that may cause rapid drying and moisture loss - resulting in fine cracking. For special curing requirements due to specific site conditions consult your local **a.b.e.®** representative.

COVERAGE

As a guideline, 15 m² per bag per mm thickness. (3 m² @ 5mm thick). Actual coverage rates vary depending on the water addition. Water addition will change for trowel and sprayed methods of application. An increase in surface irregularities will increase the product consumption requirements.

CLEANING OF EQUIPMENT

All equipment can be cleaned with water. Blowing compressed air thorough the spray equipment first before rinsing the system with clean water will facilitate easier cleaning. The nozzle itself should be inspected and cleaned out with water after every break in the spraying process. During continuous applications there is no need for nozzle cleaning as long as water and air supply is sufficient and correctly adjusted. Equipment should be cleaned prior to product setting and hardening as mechanical methods will be required to remove cured product.

PROTECTION/MAINTENANCE ON COMPLETION

Should rainfall be imminent, suitable protection must be provided until the product has cured. For additional protection properties, **abe® mortar clad** is fully compatible with the **dura.®cote** range of protective coatings (or similar). Depending on ambient conditions the **abe® mortar clad** can be over coated in 48 hours.

MODEL SPECIFICATION

Polymer-modified cementitious mortar cladding. The mortar cladding will be **abe® mortar clad**, a single component, polymer-modified, mortar cladding compound applied in accordance with the recommendations of **a.b.e.® Construction Chemicals**.

PACKAGING

abe® mortar clad is supplied in 25kg bags.

HANDLING & STORAGE

abe® mortar clad must be stored in a dry place, free from moisture contact. The product stored just prior to application should satisfy the application temperatures set out in the physical properties table above. It has a shelf life of 12 months from date of manufacture.

HEALTH & SAFETY

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The safety data sheet is available from your local **abe Construction Chemicals** sales representative.

IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.® Construction Chemicals** endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot - because **a.b.e.®** has no direct or continuous control over where and how **a.b.e.®** products are applied - accept any liability either directly or indirectly arising from the use of **a.b.e.®** products, whether or not in accordance with any advice, specification, recommendation or information given by the company.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. **a.b.e.® Construction Chemicals** has a wealth of technical and practical experience built up over years in the company's pursuit of excellence in building and construction technology.



a.b.e.® is an ISO 9001:2008 registered company
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