

BC lastic-1K

Product Description:-

BC lastic-1K is a one-component, crack-bridging, fibre-reinforced mortar, based on cement modified with special alkali-resistant polymers
BC lastic-1K is suitable for application by brush or trowel.
Suitable for use in tropical and hot climatic conditions.

Uses:

Flexible waterproofing and protection of concrete structures including tanks, basins, pipes etc.
Waterproofing of bathrooms, showers, terraces, balconies, swimming pools before the application of ceramic tiles bonded with adhesives
Waterproofing of external concrete wall surfaces to be backfilled in ground
Inside waterproofing of negative water pressure of walls and floors in basements
Flexible protection coating for reinforced concrete structures against the effects of freeze-thaw and carbon dioxide attack to improve durability

Characteristics / Advantages:

One-component product, only water needs to be added
Adjustable consistency, easy to apply by brush or trowel
Good sag resistance and easy to apply, even on vertical surfaces
Good crack-bridging ability
Very good adhesion on many substrates including concrete, cement mortars, stone, masonry
Can be applied on damp substrates

Product Information:

Composition Cement modified with alkali resistant polymers, selected aggregates, fine fillers admixtures, additives and fibres.
Packaging 20 kg bags
Appearance / Colour Light grey
Shelf life 12 months from date of production



Technical Data:

Property	Value	Test standard
Tensile Adhesion Strength	≥ 1.0 N/mm ²	(EN 1542)
Crack Bridging Ability	> 0,50 mm (Class A 3, +23 °C) > 0,50 mm (Class A 3, -10 °C)	(EN 1062-7) (EN 1062-7)
Freeze Thaw De-Icing Salt Resistance	≥ 0.8 N/mm ²	(EN 13687-1)
Permeability to Carbon Dioxide	SD ≥ 50 m	(EN 1062-6)

Application Information:

Mixing Ratio
By brush ~4,7 litres water per 18 kg bag
By trowel ~4,0 litres water per 18 kg bag
Fresh Mortar Density ~1,5 kg/l
Consumption This depends on the substrate roughness; as a guide: ~1,5 kg/m ² /mm.
Layer Thickness 2 mm with constant dry film thickness, applied in minimum 2 layers.
Maximum recommended thickness per layer is 2 mm when applied by trowel and 1 mm when applied by brush.
Ambient Air Temperature 5 °C min. / 35 °C max.
Substrate Temperature 5 °C min. / 35 °C max.
Pot Life ~30 min (+20 °C)
Waiting Time / Overcoating BC lastic-1K must be completely hardened before over-coating or water contact.



Substrate Quality / Pre-Treatment:

Substrates must be structurally sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, coatings and other surface treatments

Clean surfaces by blast cleaning, high-pressure water jetting (400 bar), wire-brushing, grinding etc., in order to remove all previous coatings, any traces of grease, rust, release agents, cement laitance and any other material which could reduce adhesion

All dust deposits from this preparation must also be removed i.e. by vacuum.

Repair concrete substrates, if necessary, with an appropriate cementitious mortar

The substrate shall be adequately dampened before application

The surface shall not be moist to the touch and shall not be the dark matte (saturated surface dry) appearance.

Mixing:

BC lastic-1K can be mixed with a low speed (~ 500 r/min) hand drill mixer, adding the right quantity of water according to the respective application

Once a homogeneous mix is obtained, continue mixing for 3–4 min.

The mortar must be homogeneous and lump free.

Do not add any additional water or other ingredients.

Each bag must be entirely mixed, to avoid faulty particle size distribution of aggregates contained in the powder component.



Special Requirements:

All connections between the substrate and pipe entries, plant and equipment, light switches etc., must be sealed and watertight.
Joints in concrete, pipes or anywhere else in the structure must also be sealed and made watertight.
Use covered details at the floor/wall junctions.
Apply BC lastic-1K by spatula / Roller Exerting good and even pressure onto the substrate;
brush: In 2 directions (diagonally opposite / crosswise);
The optimum waterproofing performance is obtained by applying BC lastic-1K by trowel in at least 2 layers to a total thickness of at least 2 mm.
Application by brush must be undertaken with the maximum attention to uniformly covering the whole surface
The maximum recommended thickness for these methods of application is 1 mm per layer
In these situations, the application of min. 2-3 layers is required (subsequent layers must be
Wait until the first layer is dry before applying subsequent layers.
The application shall cover the whole surface of the substrate in a uniform thickness.
BC lastic-1K cannot be smoothed using float or sponge trowel
It is possible to smooth the surface as soon as the curing of the product is complete by light abrasion techniques

Cleaning Of Equipment:

Tools should be thoroughly cleaned with water before the material has set.
Hardened mortar can only be removed mechanically.

