



Technical Data Sheet

BC Lastic-1K

One-Component Cementitious, Fiber-Reinforced Waterproofing Mortar

1). Product Description

BC Lastic-1K is a one-component, crack-bridging, fibre-reinforced cementitious mortar, modified with alkali-resistant polymers. It provides flexible waterproofing and concrete protection. The product can be applied by brush, roller, trowel, or mechanical spray. Only water is required for mixing.

2). Features & Advantages

- One-component system, easy to use (just add water)
- Flexible and crack-bridging
- Excellent adhesion to concrete, cement mortars, masonry, and stone
- Can be applied on damp substrates
- Good sag resistance on vertical surfaces
- Suitable for potable water applications (complies with AS/NZS 4020:2005)
- CE-marked for waterproofing and concrete protection per EN 14891 & EN 1504-2

3). Typical Uses

- Waterproofing of tanks, basins, and pipes
- Internal waterproofing of negative water pressure walls and floors in basements
- Waterproofing terraces, balconies, bathrooms, and showers before tiling
- Protection coating for reinforced concrete against freeze-thaw and carbonation
- External walls to be backfilled



4). Technical Data

Property	Value	Test Method / Notes
Composition	Cement modified with alkali-resistant polymers, fine aggregates, fillers, additives, and fibres	–
Color	Light grey	Visual
Packaging	20 kg bag	–
Shelf Life	6 months	Stored in dry, cool conditions
Max Grain Size	~0.3 mm	–
Fresh Mortar Density	~1.5 kg/l	–
Tensile Adhesion After Water Contact	≥0.5 N/mm ²	EN 14891 A.6.3
Tensile Adhesion After Freeze-Thaw	≥0.5 N/mm ²	EN 14891 A.6.6
Crack Bridging Ability	≥0.75 mm (+23 °C), ≥0.75 mm (– 5 °C)	EN 14891 A.8.2 / A.8.3
Water Vapor Permeability	SD <5 m (Class I, permeable)	EN ISO 7783-1
Water Penetration Under Pressure	No penetration at 5 bar / 72 h	EN 12390-8
Freeze-Thaw Resistance	≥0.8 N/mm ²	EN 13687-1

5). Surface Preparation

- Substrates must be structurally sound, clean, and free from contaminants such as oil, grease, cement laitance, or old coatings.
- Clean using abrasive methods, high-pressure water jetting (≥400 bar), wire brushing, or grinding.
- Repair damaged concrete with suitable cementitious repair mortar.



Mixing

- Mix each 20 kg bag thoroughly with water:
 - Brush application: ~6 L water
 - Trowel application: ~4.4 L water
- Mix to a homogeneous, lump-free consistency using a low-speed drill (~500 rpm) for 3–4 minutes.

Application

- Apply in at least 2 layers for standard applications (2 mm DFT).
- For immersion/negative pressure applications, 3–4 mm DFT in 2 layers is recommended.
- Maximum per-layer thickness: 2 mm (trowel) / 1 mm (brush).
- Ensure full surface coverage; crosswise application of subsequent layers is required.
- Pot life at +20 °C: ~30 min.
- Ambient/Substrate temperature: +5 °C to +35 °C.

6). Coverage

- Approx. 1.2 kg/m² per mm thickness

7). Packing

- 20 kg bag

8). Shelf Life & Storage

- 6 months from production if stored in original, unopened packaging.
- Store in a dry, cool place, protected from moisture.

9). Health & Safety

- Wear gloves, goggles, and suitable protective clothing.
- Avoid contact with skin and eyes.
- Wash hands thoroughly after use.
- Consult the SDS for full safety guidance.

DISCLAIMER

The data presented in this sheet are based on laboratory testing and practical experience. Variations in substrate, application method, and environmental conditions may impact performance. Users are advised to carry out tests under their own conditions. Building Chemistry Industry's responsibility is limited to the product replacement in cases of proven manufacturing defect.

