

CRYSTALLINE ACTIVE BARRIER (CAB)

Rev: June 2019

Structural
Waterproofing

JUTA UK Crystalline Active Barrier (CAB) is a crystalline cementitious waterproof slurry which creates a monolithic bond to concrete structures. When mixed with clean water and applied correctly, it is designed to form a permanent waterproof coating in accordance with BS8102:2009.

Surface Preparation

All surfaces must be free from existing coatings or contamination i.e. paint, laitance, dirt etc. and present an open capillary structure to allow monolithic bonding of the crystalline chemicals. If the surface is dry, thoroughly dampen the surface with water prior to application to aid adhesion.

Cracks and bolt holes must be cut out and filled solid with HYDROLOCK PASTE prior to the application of CAB. Substrates contaminated with high levels of soil or ground water sulphates may require the addition of salt inhibitors.

Mixing

CAB consistency can be varied to suit the application method. Recommended water additions:

| Pack Size | Brush applied | Trowel applied | Spray applied |
|------------------|-------------------------|-------------------------|-------------------------|
| 20 kg | 4.8 - 5.6 litres | 3.7 - 4.5 litres | 4.2 - 5.0 litres |

Brush applied slurry or Trowel application:

- 1. Place the recommended amount of clean water into suitable mixing bucket.**
- 2. Using a slow speed electric paddle mixer (400-600 rpm), gradually start to add the powder whilst mixing.**
- 3. Ensure all the powder is added.**
- 4. Mix for approx. 3 minutes to achieve a creamy lump free consistency.**
- 5. If required, add small amount of water to obtain the correct consistency depending on application.**

For spray application: Use traditional wet mortar spraying equipment and processes



Additional Information

Application

**CAB is a minimum 2 coat application system. Once mixed CAB has a 30 minutes pot life @ 20°C.
Minimum Layer Thickness:**

| Application | 1st Coat | 2nd coat | Total thickness |
|-----------------------|----------------------------|----------------------------|------------------------|
| Damp-proofing | 1.0mm | 1.0mm | 2.0mm |
| Water-proofing | 2.0mm | 2.0mm | 4.0mm |

Normal application rate is 3 Kg/m² for an overall 2 coat application. Consumption rates are to be increased up to 6 Kg/m² for areas of excessive water pressure.

Brush applied slurry: Apply CAB in even layers using a stiff bristled brush or broom on vertical surfaces and a rubber squeegee or stiff bristled brush / broom for horizontal surfaces. It is essential the first coat is brushed well into the surface to ensure a good bond with the substrate. Allow the first coat to set firm (2-16 hours). Apply a second coat of CAB as soon as the first coat has hardened. Apply the second coat at 90° angle to the first coat.

Do not apply CAB to substrates with temperatures below 5°C or if the ambient temperature is below 5°C or expected to fall below 5°C within 24 hrs. Avoid application in direct sunlight.

Do not allow CAB to dry out too rapidly. After initial set, moist curing is recommended. Fine mist spray treated area 3 to 4 times daily for a 48-hour period. It is recommended ventilation is provided as a lack of ventilation may cause condensation to form on the surface of CAB. Protect the coating from excessively fast evaporation in hot conditions or drying winds. If these conditions prevail, fine mist spray the surface regularly.

CAB is suitable for over coating once correctly and thoroughly cured.