

PILE HEAD SEALER (PHS)

Rev: June 2019

Structural
Waterproofing

JUTA UK Pile Head Sealer (PHS) is a crystalline cementitious waterproof slurry which creates a monolithic bond to the structure and seals the pile head. When mixed with clean water and applied correctly, it is designed to form a permanent waterproof coating to concrete piles 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 PHS. Substrates contaminated with high levels of soil or ground water sulphates may require the addition of salt inhibitors.

Mixing

PHS 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



riba
product
selector

JUTA

Additional Information

Application

**PH5 is a minimum 2 coat application system. Once mixed PH5 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 PH5 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 PH5 as soon as the first coat has hardened. Apply the second coat at 90° angle to the first coat.

Do not apply PH5 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 PH5 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 PH5. Protect the coating from excessively fast evaporation in hot conditions or drying winds. If these conditions prevail, fine mist spray the surface regularly.

PH5 is suitable for over coating once correctly and thoroughly cured.