

# ROCK 101

Liquid waterproofing for mortar and concrete

## PRODUCT DESCRIPTION

**Rock 101** is an aqueous solution containing complex colloidal silicates. In the presence of water these swell and block the capillaries and pores in the applied sand cement renders, screeds and mortar to provide an effective water barrier against the transmission of liquid water.

**Rock 101** can be used alone as an admixture or as a waterproofing system when used in conjunction with the **Rock 101** Pre-Bagged, Spritz, Render, Screed and Finishing Mortars.

## BENEFITS

- Proven for more than 100 years
- BBA Approved system.
- Pre batched system mortars available
- For brick, concrete and stone substrates
- Compatible with OPC and SRC
- Can be applied against live water infiltration
- Wall render and screed application
- Can be used internally and externally

## AREAS FOR USE

- Basements and cellars
- Waterproofing of swimming pools and other water retaining structures.
- Waterproofing of vaults and tunnels.
- Concrete, brick and structural blockwork.

## LIMITATIONS

- Puncturing the system can compromise its integrity.
- Do not expose to frost while curing.
- Allow **ROCK 101** Pre-bagged waterproofing render system to sufficiently dry before over coating.
- The structure and its elements must be capable of withstanding the developed water pressure and other anticipated loadings without cracking or delaminating.
- Advice should be sought from independently qualified personnel with knowledge of the structure and local ground conditions.
- Never score or scratch and of the **Rock 101** waterproof coats to provide a key.
- Do not use gypsum based plaster over **Rock 101** system. Refer to plaster manufacturer for advice on suitability of a product for use in waterproof works.

## SURFACE PREPARATION

### WALLS/BRICK:

All existing treatments shall be completely removed and the exposed surfaces roughened by mechanical or water blasting techniques, followed by washing down and brushing to ensure full removal of all loose material. Mortar joints should be bonded and sound.

Any defective mortar joint should be raked out to a depth of 12.0mm and repointed using **Rock 101** Finishing Mortar made up with clean water.

### WALLS/CONCRETE:

All laitance shall be removed to expose coarse aggregate by mechanical or water blasting techniques.

On new concrete walls **Citychem Products** can be applied to the face of the shuttering followed by wire brushing and washing of concrete surfaces.

## FLOORS/GENERAL:

All existing treatments shall be completely removed and the exposed concrete floor mechanically prepared, washed down and brushed to ensure full removal of all loose debris to give an exposed aggregate finish, free of laitance, and surface contamination.

## APPLICATION

Wet down prepared areas immediately prior to use. **Rock 101 pre-bagged mortars** must be mixed using a forced action mixer or in a clean drum using a drill and paddle mixer. Tumble mixers are NOT suitable.

**Rock 101 Waterproofing System** – Dilute 1ltr of **Rock 101** with 10ltrs of clean fresh water. Add fresh solution to the appropriate grade of **Rock 101 Pre-bagged Mortars** at the required rate. See **Rock 101 pre-bagged Mortars** data sheet for full details.

**Rock 101 for general use** – in renders screeds and concrete, dilute 1ltr of Rock 101 with 10ltrs of clean fresh water. Add fresh solution to dry mix to required consistency.

Specific Data TEST	RESULT
Appearance	Opaque yellow liquid.
SG @ 20°C	1.05-1.07g/cm <sup>3</sup> (approx.)
Consumption	0.75Ltrs per 25kg bag of cement (as a )
pH	8.5 – 9.5
Solids Content	9-11%

## HEALTH & SAFETY

Consult MSDS for full list of hazards.

## STORAGE

Protect **Rock 101** from frost and store between 5oC and 20oC

## SHELF LIFE

12 months from date of manufacture when stored according to manufacturer's instructions.



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# CONSTRUCTION