

BP-ReCon 75LW

Single Component Polymer Modified Light Weight Overhead Repair Mortar

Description

BP-ReCon 75LW is a ready to use one part light weight repair mortar, which is suitable for wet or dry application for a wide variety of repair applications. Provides excellent thermal compatibility to concrete, waterproof properties and long term durability.

Standards

BS: 6319 : Part 2, 6 & 7 : 83, BS: 6319 Part 7 : 85, BS: 6319, Part 3:85

Application Area

BP-ReCon 75LW is specifically designed for vertical and overhead repairs of all sizes where high build is required. Provides excellent durability & resistance to chloride & carbon-dioxide. It can also be used to repair honeycombs, surface defects, blowholes, tie rod holes and minor damages.

Advantages

- ✓ High build in single application
- ✓ Excellent bond
- ✓ Contains shrinkage compensators
- ✓ Low permeability
- ✓ One part & prebagged
- ✓ Can be wet sprayed
- ✓ No formwork required
- ✓ Overhead & vertical repairs made easy
- ✓ Can be applied in sections up to 75 mm

Typical Properties

Property	Test Method	Value
Component		Single
Form		Powder
Colour		Grey
Fresh Wet Density	BSEN 12350-6	Approx. 1.50 kg/Ltr
Setting Time		Initial 2.00 hours Final 4.50 hours
Compressive Strength	ASTM C109	28 N/ mm ² at 28 days
Tensile Strength		1.8 N/mm ² at 28 days
Flexural Strength	BS 6319-3	4.0 N/ mm ² at 28 days
Water Absorption (ISAT)	BS 1881-208	10 minutes 0.002 ml/m ² /sec.
Carbon Dioxide Barrier		10 mm of BP-ReCon 75LW is equivalent to 300 mm of concrete
Chemical Resistance		Reduces dramatically chemical attack due to low permeability.
Coefficient of Thermal Expansion		7 to 12 x 10 ⁻⁶ / oC
Drying Shrinkage	ASTM C157	< 400 micro strain at 7 days and < 580 micro strain at 28 days

Surface Preparation

Saw cut repair area to a depth at least 10 mm. to avoid feather edges. Break out repair area. Clean surface remove unsound concrete, dust, oil, paint, grease, algae, etc. The surface must be left clean & roughened. Steel should be cleaned to bright condition & primed using 2 coats of **BP-Recon Zinc/ BP-NanoGrout SG**.

Priming

Apply **BP-FitBond SBR** or **BP-FitBond EA** to the prepared surface and whilst still tacky apply **BP-ReCon 75LW**.

Mixing

BP-ReCon 75LW powder must always be added to water. Ensure thorough mixing in a forced action mixer or with a heavy duty drill (400/ 500 rpm.). Do not use free fall mixers or part bags. Use 4.6 litres of clean water. Put the water into the mixer & add an 25 kg of **BP-ReCon 75LW**, mix for 3-5 minutes. Always add powder to water. The maximum water content should be 5.6 litres per 25 kg.

Application Guidelines

Mix and apply **BP-ReCon Zinc/ BP-NanoGrout SG** to rebar allow to dry. Apply **BP-FitBond EA / BP-FitBond SBR** bonding bridge if required. Apply repair material WET ON WET to bonding bridge. Replace damaged concrete using **BP-ReCon 75LW** -one component polymer modified mortar, build up in layers if necessary. Apply **BP-ReCon 75LW** to the prepared area by hand or trowel. Work a thin layer into the primer then build until the required depth. On vertical & overhead surfaces build may be as high as 50-80 mm. without formwork. If high build is required work in layers. If sagging takes place re-apply system including primer. The minimum build for **BP-ReCon 75LW** is 10 mm. Intermediate layers should be scratched keyed & cured with water.

Application Thickness

BP-Recon 75LW can be applied at a thickness of 5 mm up to 40 mm in a single layer.

- ✓ 5 mm to 40 mm in a single layer for horizontal surface
- ✓ 5 mm to 20 mm in a single layer for vertical surface
- ✓ 5 mm to 15 mm in a single layer for overhead surface

Curing

BP-Recon 75LW treated concrete must be protected to prevent premature moisture loss and crazing immediately after final finishing. Water cure by mist spray or by spreading wet burlap/moist hessian over the surface. Alternatively suitable curing compound from **BP-JetCure** range may be used.

Packaging

BP-Recon GP is packed in 25kg moisture resistant bags.

BP-ReCon 75LW

Storage & Shelf-life

12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.

Limitations

At temperatures over 30°C, at low humidity or when placing concrete without protection from wind or sun, erect sunshades or windbreaks the use of **BP-JetCure GP** curing products is essential. Do not use salt water or salt contaminated aggregate in concrete over which shakes containing metallic aggregate or colour will be applied.

Cleaning

Clean all equipments and tools with water immediately after use. Hardened material can be removed mechanically.

Health and Safety

This product contains cement powders which,

when mixed with water or upon becoming damp, release alkalis that can be harmful to skin. During use, avoid inhalation of the dust and contact with the skin or eyes. Gloves, goggles and suitable mask must be worn. Contact with skin, eyes, etc. must be avoided. If swallowed seek medical attention immediately. Regarded as non-hazardous for transportation. Do not reuse containers. To be disposed off as per local rules and regulations.

Quality & Care

Conpacmix (BD) Ltd. acquired German technology for an updated production facility and set up a state of the art laboratory facility for conducting regular quality assessments on raw materials procured and finished products. Process from procurement of raw materials to finished products, are managed by qualified and experienced engineers, chemists and technicians.

Note: Field service where provided does not constitute supervisory responsibility. Suggestions made by **Conpacmix (BD) Ltd.** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **Conpacmix (BD) Ltd.**, are responsible for carrying out procedures appropriate to a specific application.

Manufacture:

