

CONCRETE SOLUTIONS



DOLPHIN REPAIR 115

High-Quality Structural Repair Cementitious Mortar.

DESCRIPTION:

DOLPHIN REPAIR 115 is a cement based multi-purpose patching and repair mortar, incorporating the use of micro fibers. It can be used for the cosmetic or structural repair of deteriorated concrete and mortar.

TYPICAL USES:

DOLPHIN REPAIR 115 is applicable for:

- Repairs of concrete structures.
- Restoration of spalled and damaged concrete.
- Repairing of cavities and honeycombs in concrete.
- Section enlargement (increasing the bearing capacity of the concrete structure).
- Replacing contaminated or damaged concrete.
- Thick layer repair mortar for vertical and overhead applications.
- Joints treatment between precast elements.

ADVANTAGES:

- A single component product.
- Easy to use and apply.
- High strength, and abrasion resistance.
- Ensure repair dimensional stability.
- Thixotropic properties allowing high build up in vertical and overhead repair.

STANDARD:

DOLPHIN REPAIR 115

This product is complied with R4 specification in repair mortar refers to a classification of high-performance repair mortar that meets the requirements of the EN 1504-3 standard.

TECHNICAL SPECIFICATIONS:

Appearance:	Grey powder
Composition:	Portland cement, selected sand, fibers, additives
Grain size:	Dmax 2 mm
Density:	~ 1.80 g/cm ³
Compressive strength:	
After 7 Days	40 MPa ± 2 (ASTM C109)
After 28 Days	55 MPa ± 2 (ASTM C109)
Flexural strength (28days):	> 6.0 MPa (ASTM C348)
Adhesion (28days):	> 1.5 MPa (ASTM C1583)
Resistance to fire:	Class A1 (BS EN 998 -1)
Tensile Strength (28days):	> 1.5 MPa (ASTM C307)

APPLICATION PROPERTIES:

Characteristics	Results
Mixing ratio	Liter of water per 25 kg bag 4.00 – 3.50
Recommended Thickness:	
Vertical:	Max 50mm
Overhead:	Max 30mm
Wet mix life:	< 1.5 hr @ 25°C
Ambient air temperature:	+5 °C min. / +40 °C max.
Substrate temperature:	+5 °C min. / +40 °C max.

APPLICATION:

Surface preparation:

The surface of substrates should be sound, free from laitance, paint, oil, grease, and shuttering oil. Before application, all surfaces must be dampened. In case of smooth surfaces, you can use one the following bonding primers: CON LATEX 130, or other suitable bonding primer.

Mixing:

To prepare DOLPHIN REBAIR 115, combine one 25 kg bag with 3.75 liters (15% ± 0.25 L) of clean water. Blend manually using a low-speed electric hand mixer or concrete mixer for 3 minutes minimum, until a smooth, uniform consistency is achieved. Let the mixture rest briefly before application.

Application:

- 1- Apply the plaster manually with a plastering trowel, ensuring a maximum thickness up to 50 mm on vertical surface or 30 mm on overhead surface of fresh material. For more thickness, you can apply in several thickness.
- 2- Refine the surface with a synthetic sponge after the levelled surface is partially dried.
- 3- Protect the surface from direct sunlight or strong winds to prevent rapid drying.
- 4 -Maintain consistent moisture for three days minimum to ensure proper curing.

PACKAGING & STORAGE:

- **Packing:** 25kg Bag.
- **Storage:** Store under cover, out of direct sunlight and protect from extreme temperatures.
- **Shelf life:** Shelf life is up to 12 months when stored as per recommendations.

HEALTH & SAFETY:

The information, and the recommendations relating to the application and end-use of Con Techproducts, are given in good faith based on our current knowledge and experience of the products when properly stored, handled, and applied under normal conditions by the given recommendation. We reserve the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned copies, which will be supplied on request.

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally allowed, do not induce vomiting, but call for medical assistance directly.

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