

Cicoproof®WEP

Waterborne Epoxy-Cement Waterproofing System

DESCRIPTION

Cicoproof®WEP is a three component, 100% solids waterborne epoxy-cement waterproofing mortar, which has an application thickness starting from 1.0 mm up to 2 mm in one go. It is formulated from two components high quality waterborne epoxy that when blended with the filler (cement and hard selected fine graded aggregates), forms a fine smooth mortar. Cicoproof®WEP is designed to seal, repair, and form a waterproofing layer for water structures. Cicoproof®WEP is applicable over damp and green concrete as it is waterborne epoxy based. Cicoproof®WEP gives a smooth finish surface that can be left without any sealer. At the same time, the mortar surface is ready to be sealed with other epoxy or polyurethane coating systems if required.

USES

- Waterproofing for concrete water structures, reservoirs, and tanks including potable water.
- Pore sealer for high porous concrete, horizontally and vertically.
- Quick preparing for other epoxy and polyurethane systems over damp concrete surfaces (acts as a primer).
- Indoor and outdoor application.

ADVANTAGES

- Supports green building trend.
- Environmentally friendly.
- Waterborne epoxy-cement composite system.
- Non-toxic.
- Multi-purpose.
- Saves epoxy systems application time for wet and damp concrete surfaces if used as a primer.
- Doesn't require a primer in application.
- Doesn't require dry or old concrete.

- Excellent and fast water and moisture barrier.
- Easy to clean.
- Good chemical and abrasion resistance.
- Smooth surface finish.
- Anti-carbonation and stops chloride ion diffusion.
- High bonding to concrete.
- Long pot life, Suitable for hot climates.

PACKAGING

28 kg set.

SHELF LIFE & STORAGE

9 months storage life if stored in its original unopened containers under a dry and shaded place in a temperature from 5°C to 45°C.

TECHNICAL PROPERTIES

Form	Grey Mortar
Mixed Density @ 25°C	1.9 kg/ltr
Solid Content	100%
Pot life @ 25°C	50±3 min.
Touch Dry @ 25°C	5 hrs.±15 min.
Overcoat Time @ 25°C	12-36 hrs.
Full Cure @ 25°C	28 days
Compressive Strength @28 days [ASTM C579]	40±1 N/mm ²
Tensile Strength @28 days [ASTM C307]	6±1 N/mm ²
Flexural Strength @28 days [ASTM C580]	10±1 N/mm ²
Adhesion to concrete [ASTM D7234]	≥2.5 N/mm ²
Shore D Hardness [ASTM D2240]	≥80
Application thickness	1-2 mm
Coverage	1.90 Kg/m ² @ 1 mm thick

APPLICATION INSTRUCTIONS

Surface Preparation

Laitance, oil, grease, or any fatty contamination should be removed using either Cicosurface®Degreaser, sandblasting, or steam cleaning. Cicoproof®WEP is applied on sound, clean, and damp substrates. Dry concrete should be wetted with water before application. To achieve maximum adhesion between the substrate and Cicoproof®WEP, roughen the surface by grit blasting.

Mixing

In a large container (more than 18 ltr volume) pour components A and B first and mix them well using mid speed drill for one minute. After having a homogenous mix, add component C slowly while mixing with a powerful slow speed shear mixer for another two minutes until you produce a homogenous mortar.

Priming

For clean, rough wet concrete, no primer is required.

Application

Apply Cicoproof®WEP directly on the damp concrete for a minimum 1 mm thick coat by trowel or spray. Assure good compaction. For control purposes, it is advisable to apply Cicoproof®WEP in two coats. To control a minimum thickness, it is recommended to apply the first coat using a notched trowel, where the second one is applied filling the notches of the stiffened first coat. Compact the mortar gently using a wooden float to ensure a high degree of bond to the concrete surface. Finish the surface of the mortar using proper steel trowels wetted with water.

LIMITATION

Don't apply Cicoproof®EP if:

- The temperature of the surface is below 5°C or over 40°C.
- The concrete is dry.

CLEANING

Tools freshly contaminated with Cicoproof®WEP can be cleaned using water. Hardened material can be removed by mechanical means.

PRECAUTIONS

Health And Safety

Cicoproof®WEP should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin is made, wash off immediately with soap and water. If swallowed, seek medical attention immediately, do not induce vomiting.

TECHNICAL SUPPORT

CIC provides on-site assistance, as well as consulting services on projects when requested. Technical data sheets on other CIC products and guidance on their use are available on request.

Warranty

CIC products are guaranteed against defective materials and manufacture and sold subject to CIC's standard terms and conditions of sale. Whilst CIC endeavors to ensure that any advice, information or recommendation given is correct, the company cannot accept any liability either directly or indirectly arising from the use of its products. User of the product must test the product's suitability for the intended application and purpose, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. Our Products are in continuous development and CIC reserves the right to change the product without prior notice.

