

Cement Bear

Air/Moisture Barrier & Adhesive

PRODUCT DESCRIPTION

DuROCK **Cement Bear** is formulated with a 100% acrylic emulsion that is field-mixed with Portland Cement. It is a trowel-applied high performance coating for use on non-combustible substrates, as an air and moisture barrier for **DuROCK PUCCS** and **InsulROCK** Systems. **Cement Bear** contains fibres that enhance the cohesive and tensile strength for added durability. **Cement Bear** can also be used as an insulation adhesive.

The low water absorption combined with a high flexural strength makes **Cement Bear** an ideal water penetration barrier for use on exterior wall systems; in particular glass-fibre faced gypsum sheathing, cement board, concrete or masonry substrates. Check with DuROCK for use on other substrates.

Refer to DuRock system specifications and details for information regarding self-adhering membranes that may be used to maintain continuity of the **Cement Bear** air/moisture barrier.

STORAGE & MIXING

Store **Cement Bear** above 4°C (40°F) and below 40°C (104°F), off the ground and in a dry place away from direct sunlight. Employ temporary protection measures as needed. Under no circumstances shall **Cement Bear** be permitted to freeze.

Using a stainless steel or corrosion resistant mixing blade and power drill, mix one-half pail of **Cement Bear** with 13.5 kg (30 lbs) Type 10, 20 or 30 Portland Cement. Mix at 400 – 500 rpm, ensuring not to induce air into the product, until a uniform consistency is attained. Let the mixture stand for 5 minutes, then re-mix before use. Do not add water. Accelerators and other additives are prohibited and will void warranty. Discard material that becomes stiff or hard.

APPLICATION & COVERAGE

Substrate must be clean, dry, and free of cracks or loose material. Surface and ambient temperatures must be at least 4°C (40°F) a minimum of 24 hours, and must remain so until **Cement Bear** has dried. Do not apply **Cement Bear** in direct sunlight at temperatures exceeding 30°C (86°F) and protect from winds exceeding 25 km/hr (15 mph) as well as precipitation for at least 24 hours.

Sheathing joints shall not be greater than 6.4 mm ($\frac{1}{4}$ inch) wide. Sheathing board joints wider than 3.2 mm ($\frac{1}{8}$ inch) shall be pre-treated with fibre mesh tape. Refer to system specifications for installation requirements.

Coverage at the minimum required single coat thickness of 1.0 mm dry (1.25 mm wet) is approximately 27 sq m (290 sq ft) per 19 L (5 gallon US) pail. When used as both the first and second coat moisture barrier, and applied at the minimum required thickness, the coverage is approximately 13.5 sq m (145 sq ft) per pail. When used solely as the adhesive coat over Roller Bear, **Cement Bear** should be applied at a wet thickness of 2.0 mm, in which case the approximate coverage is 17 sq m (180 sq ft).

TECHNICAL DATA

Air Leakage Rate < 0.02 L/(s.m²) @ 75 Pa
Vapour Transmission Rate > 500 ng/(Pa.s.m²)
Water Absorption Coefficient < 0.004 kg/(m².s^{1/2})
Adhesive Bond Strength > 0.3 MPa

Physical Characteristics:

- Non-Sagging
- Tack-free in 2 to 3 hours
- Pot Life – Approx. $\frac{1}{2}$ to $\frac{3}{4}$ hour
- Shelf Life – Approx. 3 years
- Cleans up with water

Refer to www.DuROCK.com for the most up-to-date version of this document.