



# Polar Bear

## Air & Moisture Barrier/Adhesive

### PRODUCT DESCRIPTION

DuROCK **Polar Bear** is formulated with a 100% acrylic emulsion. It is a trowel-applied high performance coating formulated for use over wood substrates. It is an air/moisture barrier and adhesive for the **DuROCK PUCC System**. **Polar Bear** contains fibers that enhance the cohesive and tensile strength for added durability.

The low water absorption combined with a high flexural strength makes **Polar Bear** an ideal water penetration barrier for use on exterior wall systems; in particular plywood 12.7 mm (½ inch) thick and oriented strand board (OSB), minimum 11.1 mm (7/16 inch) thick. Check with DuROCK for use on other substrates.

As part of an air barrier system for a wall assembly, **Polar Bear** is compatible with most transition membranes comprised of bituminous SBS with fabric or cross-laminated polyethylene backing, as well as bituminous mastics and polyurethane foam sealants. Refer to DuROCK system specifications for product specific guidelines.

### STORAGE & MIXING

Store **Polar 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 **Polar Bear** be permitted to freeze.

Using a stainless steel or corrosion resistant mixing blade and power drill, mix at 400 – 500 rpm, ensuring not to induce air into the product, until a uniform consistency is attained. 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 **Polar Bear** has dried. Do not apply **Polar 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 (¼ inch) wide. Sheathing board joints wider than 3.2 mm (1/8 inch) shall be pre-treated with fibre mesh tape. Refer to system specifications for installation requirements.

Coverage at 1.2 mm dry thickness (1.5 mm wet) is approximately 15 m<sup>2</sup> (160 ft<sup>2</sup>) per 19 L (5 gallon US) pail.

### TECHNICAL DATA

Air Leakage Rate < 0.02 L/(s.m<sup>2</sup>) @ 75 Pa  
Vapour Transmission Rate > 100 ng/(Pa.s.m<sup>2</sup>)  
Water Transmission Rate < 2 x 10<sup>-7</sup> kg/(m<sup>2</sup>.s)  
Adhesive Bond Strength > 0.3 MPa

#### Physical Characteristics:

- Non-Sagging
- Tack-free in 3 to 5 hours
- Pot Life – Approx. 1 hour
- Shelf Life – Approx. 3 years
- Cleans up with water

Refer to [www.DuROCK.com](http://www.DuROCK.com) for the most up-to-date version of this document.