

Curing Compound and Admixture

DESCRIPTION

Barnacle Milk is an acrylic polymer emulsion specifically designed for modifying Portland Cement compositions. **Barnacle Milk** is used both as a curing compound and as an admixture in many areas of application.

As a curing compound, **Barnacle Milk** works by forming a barrier on the exposed cement surface as it begins to set up. This barrier retards further evaporation, retaining the water needed for hydration, resulting in a denser, faster, and more uniformly curing cement. **Barnacle Milk** reduces labor costs by eliminating the task of wet curing and is effective on either vertical or horizontal surfaces such as tunnels, chimneys, highways, roads, bridge decks, dams, airport runways and aprons as well as curb and gutter work.

Using **Barnacle Milk** as an admixture in concrete and masonry work will provide important physical modifications to the cement mixtures. Such modifications result in improved water resistant and chemical resistant properties, ultraviolet stability (will not discolor), fast surface set, increased physical strength, and good adhesion to all concrete and masonry, wood, glass, metal and many other surfaces.

DIRECTIONS

For use as a curing compound:

Apply to fresh concrete surfaces after final trowelling when surface water glaze has disappeared. Uniformly apply **Barnacle Milk** directly to the concrete surface by sprayer or roller.

For use as an admixture:

Mix concrete with or without plasticizer to the desired consistency. Add the required amount of **Barnacle Milk** to "tie up" the free water in the mixture, producing a creamy consistency so "bleeding" will not occur. Add **Barnacle Milk** slowly to the mixer at the end of the mixing cycle while agitating.

PHYSICAL DATA

Appearance	Milky emulsion
Color	White with blue tints
Foam	Low
Odor	Acrylic
pH	9.5 - 10.0

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **BARNACLE MILK**

WHMIS CODE: Not Regulated

Product Use: *Concrete additive.*

Proper Shipping Name: N/A

Hazard Class: N/A

UN Number: N/A

HMIS

1	Health
0	Flammability
0	Reactivity
A	Personal

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U.S.A.: Chemtrec 800-424-9300

A=Goggles, B=Goggles & Gloves
C=Goggles, Gloves and Apron

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT

CAS NO.

RANGE %

PEL

TLV

NO HAZARDOUS MATERIAL - THIS FORMULATION CONTAINS NO REPORTABLE HAZARDOUS INGREDIENTS

SECTION 3 – PHYSICAL DATA

Color and Odor: Pale milky liquid.

Boiling Point: N/D

Vapor Pressure (mm HG): N/D

pH: 9.5-10.0

Physical State: Liquid.

Melting Point: N/A

Vapor Density: N/D

Specific Gravity: 1.06 @ 20°C

Coeff. Water/Oil Dist: Greater than 1.0

Evaporation Rate: N/D

Solubility in Water: Soluble

Odor Threshold: No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None to 100°C (TCC)

Sensitivity to Mechanical Impact: None.

Extinguishing Media: Not flammable.

Flammable Limits: None known.

Sensitivity to Static Discharge: None.

Auto ignition Temperature: None known.

Unusual Fire and Explosion Hazards: None.

Conditions of Flammability: None.

Hazardous Combustion Products: Oxides of carbon and/or acrylic monomers.

Special Fire Fighting: Wear NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situation. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions.

Hazardous Polymerization: Will not occur.

Incompatibility (material to avoid): Strong oxidizing agents.

Hazardous Decomposition Products: Oxides of carbon and/or acrylic monomers.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient.

Routes of Entry: Skin, eyes, inhalation.

Irritancy of Product: May be irritating to eyes.

Carcinogenicity: None known.

Sensitization: None known.

Mutagenicity: None known.

Name of Toxicological Synergistic Product: None known.

Reproductive Toxicity: None known.

Effects of Chronic Exposure: None known.

Teratogenicity: None known.

Effects of Acute Exposure to Product: Product does not show any significant acute health hazards according to available data.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: Not required for normal use of product.

Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.

Protective Gloves: Not required.

Eye Protection: Not required.

Protective Clothing and Equipment: Eyes wash recommended in the immediate work area.

Storage and Handling Procedures: Use good Industrial hygiene. Avoid contact with skin, eyes and clothing. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with other chemicals. Store at temperatures below 30°C and keep from freezing.

Disposal Procedures for Spills or Leaks: Wear protective equipment. Dike and contain large spills. Pump spills into an approved waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and natural waters.

Waste Disposal Method: Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

Special Shipping Information: Store at temperature below 30°C. Keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:

If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division

PHONE: 604-526-5655

LAST UPDATE: 07/04/11

THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE