



KOSTER SB BONDING EMULSION

ADDITIVE FOR THE KOSTER NB 1 SYSTEM AND OTHER CEMENT BASED COMPOUNDS

Description:

KOSTER SB BONDING EMULSION is a carboxylated styrene butadiene copolymer latex. It is designed to be used as an additive for KOSTER NB 1 as well as with hydraulic cements. It imparts excellent improved protection from water soluble salts, acid and alkalis.

Technical Data

Non-Volatile Content	46.0 – 48.0
pH Value	10.5 – 11.5
Coagulum, 100 Mesh, % Maximum	0.05
Residual Styrene, % Maximum	0.10
Weight U.S., lbs/gallon	8.4
Viscosity, Brookfield, RVF, #2 At 20 rpm cps Maximum	100

Features:

The addition of KOSTER SB BONDING EMULSION to hydraulic cement mixes results in:

- Improved adhesion to most substrates
- Improved water resistance
- Improved resistance to dilute alkalis
- Improved resistance to dilute acids
- Improved resistance to water soluble salts
- Increased flexural strength
- Improved abrasion resistance
- Improved free-thaw resistance
- Reduced water cement ratios
- Improved flexibility which enables thermal movements and surface tensions to be more easily accommodated, reducing the risk of cracking.
- KOSTER SB BONDING EMULSION may, however, slightly reduce compressive strength.

Uses:

- As a plasticizer for KOSTER NB 1 SYSTEM.
- As an additive to Cement Mortar, to improve adhesion to the substrates and water resistance of the final product.
- For bonding slurries as well as floor and wall toppings, etc.
- To improve Freeze/Thaw Resistance of cement-based mixes.
- For overlays, underlayments and screeds.

Surface Preparation:

Surface must be sound, clean and free of contaminants such as curing compounds, dust, dirt, paint, oil, previous coatings and form-release agents. Substrates must have cured a minimum of 7 days and provide an absorptive surface.

A damp surface is required prior to applications of mixes containing KOSTER SB BONDING EMULSION.

Mixing Instructions:

As an additive to KOSTER NB 1, positive side application, mix 1 part SB BONDING EMULSION with 7 parts clean potable water (see CSI specifications) (1:13 SB/water for negative side applications).

As additive to mortar, concrete or bonding slurry, premix SB BONDING EMULSION with water 1:1.

Suggested mixes for cement and sand are:

*Mortars: 1:3 cement/sand

Bonding Slurry 1:1 cement/sand

Concrete: Depends on individual mix design

**Depending on thickness of application.
Consult manufacturer for details.*

Mixing Techniques:

When mixing KOSTER SB BONDING EMULSION with cement/sand, use slow-speed mixing equipment to avoid aeration of mix. Always add cement/sand mix to SB BONDING EMULSION/water mix. Use clean potable water only.

Application:

Suggested trowel application techniques of mixes containing KOSTER SB BONDING EMULSION:

1. Use the minimum possible trowel strokes to finish mixes containing SB BONDING EMULSION.
2. Do not try to refinish already-troweled surface.
3. Apply minimum pressure when troweling and finishing mixes.

Curing:

KOSTER SB BONDING EMULSION modified mixes do not require curing if used as mortars. The latex forms a skin that acts as a curing compound.

If KOSTER SB BONDING AGENT is used as an additive for overlays or screed mixes, a wet cure using wet burlap bags and plastic sheeting is recommended. Place burlap and plastic as soon as cement has reached initial set. Wet cure for a minimum of 48 hours.

NO CURING IS PERMITTED OR NECESSARY WHEN KOSTER SB BONDING EMULSION IS USED AS ADDITIVE TO KOSTER NB 1 SYSTEM.

Caution:

Do not apply cement mixes modified with KOSTER SB BONDING EMULSION when temperature is below 40°F within 48 hours.

Do not apply to frozen substrates.

Applications at temperatures in excess of 90°F must be moisture-cured for a minimum of 24 hours. The same applies to applications exposed to dry winds and direct sun. Do not use KOSTER SB BONDING EMULSION in mixes containing color pigments or white cement.

Safety Precautions:

PROTECT FROM FREEZING

DO NOT TAKE INTERNALLY

Avoid inhalation of vapors or mist.

Avoid splashing into eyes.

Avoid contact with skin.

Wear protective equipment.

Use only with adequate ventilation.

Wash hands immediately after use.

Consult Material Safety Data Sheet before using the product.

Cleaning:

Clean all mixing and application equipment with water immediately after use.

Packaging:

5 gallon containers

55 gallon drums

Storage:

KOSTER SB BONDING EMULSION has a shelf-life of 1 year.

Long-term exposure to temperatures in excess of 95°F must be avoided.

PROTECT FROM FREEZING.

Caution:

As with all butadiene copolymers, this latex is sensitive to copper and manganese ions. Exposure to these materials should be avoided.

Limited Warranty:

KOSTER AMERICAN CORPORATION ("KOSTER") warrants for a period not exceeding one (1) year, that its products shall be in accordance with their published specifications and covenants that, in the event any of its products fail to meet their published specifications or their published performance standards (subject to published conditions such as proper application and surface preparation), KOSTER shall replace those products proved defective, but KOSTER shall not be responsible for consequential damages due to the breach of its warranties. Notwithstanding the foregoing, KOSTER'S liability hereunder shall not be the cost of the defective product originally purchased. EXCEPT AS SET FORTH ABOVE, KOSTER MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, AND MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Distributed By:

**KOSTER American Corporation
2585 Aviator Drive
Virginia Beach, VA 23453**

**PH: (757) 425-1206 • FAX: (757) 425-9951
Web Site: www.kosterusa.com**

DS#005

10/08

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY
READ MATERIALS SAFETY DATA SHEET
BEFORE USING
EMERGENCY RESPONSE: Infotrac 800-535-5053