

EUCOTILT SB

SOLVENT BASED, REACTIVE CURE AND BONDBREAKER



EUCUD CHEMICAL

PACKAGING

5 gallon (18.9 L) pails
Code: 071BBS 05
55 gallon (201 L) drums
Code: 071BBS 55

APPROXIMATE COVERAGE

Cure Coat (one application): 200 to 400 ft²/gal (4.9 to 9.8 m²/L) per coat.

Bondbreaker Application, casting slabs cured with EUCOTILT SB (two coats minimum): 400 to 800 ft²/gal (9.8 to 19.6 m²/L) per coat.

Bondbreaker Application, casting slabs previously cured and/or pre-sealed with a EUCO Liquid Applied Densifier (two coats minimum): 600 to 1,000 ft²/gal (14.7 to 24.5 m²/L) per coat.

Note:

- Coverage rates are approximate. Actual coverage rates depend on multiple variables including: concrete mix design, use of fly ash/ pozzolans, thickness of casting slab, climatic conditions during placement of casting slab and/or wall panels, finish of concrete, etc.
- Apply bondbreaker in multiple, lighter coats, as opposed to one heavy coat. **Apply two coats, minimum.**

CLEAN UP

See "CLEAN UP AND REMOVAL" Section

SHELF LIFE

1 year in original, unopened package

SPECIFICATIONS/COMPLIANCES

- Meets the moisture retention properties of ASTM C309 when applied to hard troweled surfaces prepared in accordance to CEN/TS 14754.

DESCRIPTION

EUCOTILT SB is a solvent based, chemically reactive, membrane forming cure and bondbreaker engineered specifically for tilt-up construction. Containing no wax or hydrocarbon resins, EUCOTILT SB is formulated using organic compounds that react with the free lime in the concrete casting surface to form amorphous gels / metallic soaps that, when properly applied, provide for clean release of cast panels. The unique solvent blend allows for quick drying, even in cool, damp conditions.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Organic solids in product chemically react with free lime in concrete to provide for clean separation of tilt-up panel from casting surface
- Contains NO WAX or hydrocarbon resins, both of which can cause issues with staining and adhesion of post applied coatings
- Solvent blend formulated to be fast drying, even in cool, damp climates
- When properly applied, clean panels and casting surfaces result, with no residue, staining, or discoloration
- Achieves crisp, clean release, minimizing panel surface defects and subsequent "sack & patch" repairs
- Excellent for use as a cure coat that meets the moisture retention properties of ASTM C309 when applied to hard troweled surfaces prepared in accordance to CEN/TS 14754
- Chemical reactivity of EUCOTILT SB with free lime in concrete casting surface enhances resistance to wash off from rain and foot traffic abrasion

PRIMARY APPLICATIONS

- Tilt-up construction of all types
 - Warehouses
 - Distribution Centers
 - Manufacturing Buildings
 - Commercial and Retail Facilities
 - Educational Facilities
- Pre-Cast Construction
- Curing compound for steel troweled surfaces that are to be used as casting slabs.

APPEARANCE

- EucoTilt SB is pink in color.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

| Test Method | Test Property | Values |
|-------------------------|--|--------------------------|
| N/A | Color | Pink Liquid |
| N/A | Clarity | Clear |
| N/A | VOC | 800 g/L |
| ASTM C309/ ASTM C156 | Moisture Loss (on a steel troweled surface) CEN/TS 14754 | < 0.55 kg/m ² |
| N/A | Viscosity | 4 cps |
| N/A | Flash Point | 115 °F (46 °C) |
| N/A | Tack Free Time | 25 to 35 minutes |

DIRECTIONS FOR USE

Surface Preparation: See EUCOTILT BONDBREAKER APPLICATION GUIDE for detailed instructions.

Equipment: Recommended application requires tank type/hand held pump sprayer, electric power sprayer, or battery operated power sprayer. Ensure that sprayer components, to include gaskets and hoses, are compatible and chemically resistant to VOC and exempt solvents used in EUCOTILT SB. Optimal uniform coverage is achieved through use of proper spray tip size, flat fan type, 80° spray angle, and flow rate of 0.3 to 0.5 gal/min (1.1 to 1.9 L/min), depending on project specifics and site conditions. Recommend use of a CF Valve or pressure gauge to ensure consistent application pressure at 40 psi (0.28 MPa).

Mixing: Stir EucoTilt SB for 30 seconds prior to each use, using manual/non-powered equipment (such as a hand-crank drum agitator, or simply rolling the drum on its side)

Cure Coat Application: Upon completion of final finishing of casting surface, apply cure coat to point of rejection and uniform surface film holdout. It is the contractor's responsibility to determine whether cure coat application occurs before or after early entry, saw cutting of control joints. If cure coat is to occur after saw cutting, be sure to clean concrete surfaces of all saw cut residue/dust prior to application. See **APPROXIMATE COVERAGE** section for typical application rates. If the site climatic conditions are excessively dry, hot, and/or windy during concrete placements, it may be necessary to consider alternative curing methods, such as water/wet curing, as recommended by ACI. Use of evaporation retardant, EUCOBAR, is especially recommended in these conditions.

Bondbreaker Application: Apply bondbreaker to properly cured, smooth, dense casting slab. Remove all dust, dirt, standing water, and other contaminants from casting surfaces. If membrane forming curing compounds, other than EUCOTILT SB, are used to cure casting surfaces, they must be removed prior to bondbreaker application. Optimal results are achieved when successive, uniform, light coats of EUCOTILT SB are applied at right angles to the previous coat. Do not allow puddling or ponding of material. Apply all bondbreaker coats prior to installation of reinforcing steel and lifting inserts, embeds, and hardware. Allow each bondbreaker application to dry prior to the next coat. Apply successive coats until the casting surface appears uniformly dark in color for at least 2 to 4 hours after last coat. Treated casting surfaces that are light in color are indications of a more porous slab condition and may necessitate reapplication in those areas. If these light areas persist, wet/mist the light colored areas with water to fill concrete pores, squeegee off excess water, and immediately reapply EUCOTILT SB. If the concrete panel placement is delayed more than 2 weeks beyond final bondbreaker application, it may be necessary to reapply bondbreaker. Verify bondbreaker application and reapply, if needed. An adequate application of bondbreaker is indicated by a dry, soapy feel to the touch across the entire casting surface. Do not under or over apply bond-breaker. Under application can lead to panel sticking and over application may result in retardation of panel skin, dusting of panel face, surface defects and/or discoloration. See **APPROXIMATE COVERAGE** section for typical application rates.

See EUCOTILT BONDBREAKER APPLICATION GUIDE for more detailed instructions.

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CLEAN-UP AND REMOVAL

- Clean tools and application equipment with mineral spirits, acetone, xylene, or similar.
 - With proper application and adequate UV exposure to oxidize residual bondbreaker, the casting surfaces and tilt-up wall panels will not require cleaning.
 - Residual Bondbreaker:
 - If residual bondbreaker remains on casting slab surface, utilize an appropriate dilution of EUCO CLEAN & STRIP and scrubbing machines (or ride on power trowels) with appropriate nylo-grit scrub brushes. Once surface is cleaned, squeegee off excess residue/material, rinse thoroughly, and squeegee dry. See *EUCOTILT BONDBREAKER APPLICATION GUIDE* for more detailed instructions.
 - If residual bondbreaker remains on tilt wall panels, areas to be cleaned shall be pretreated with an appropriate dilution of trisodium phosphate (TSP) and water. Allow cleaning solution to marinate / remain on surface for approximately 30 minutes before rinsing with a 4000 psi pressure washer. See *EUCOTILT BONDBREAKER APPLICATION GUIDE* for more detailed instructions.
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PRECAUTIONS/LIMITATIONS

- Not recommended for application to broom finished or otherwise porous, rough-finished casting surfaces.
- Keep from freezing.
- Stir EucoTilt SB for 30 seconds prior to each use, using manual/non-powered equipment (such as a hand-crank drum agitator, or simply rolling the drum on its side)
- Do not use pressure washers to clean casting slab surfaces after EucoTilt SB has been applied.
- The use of a deflection board is necessary during concrete placement to prevent scouring of the casting slab.
- Pozzolans, such as fly ash or slag, used in the slab and/or tilt panel mix design, may impact coverage rates and application procedures of EUCOTILT SB. Contact Euclid Chemical Company for technical assistance if pozzolans are used on your project.
- Perform appropriate site tests and/or mock-ups to verify performance of product, determine application rates and quantities required, and validate application procedures for project specific conditions to achieve desired results.
- Not recommended for application when casting surfaces are frozen (32 °F [0 °C] or below) or expected to freeze prior to complete drying of applied EUCOTILT SB.
- Not recommended for application over any other manufacturer's post applied products, including, but not limited to, curing compounds, bondbreakers, densifiers, and cure & seals.
- Verify compatibility of any Euclid Products used in combination/conjunction with EUCOTILT SB prior to their application.
- If the concrete panel placement is delayed more than 2 weeks beyond final bondbreaker application, it may be necessary to reapply bondbreaker. Verify bondbreaker application and reapply, as required, prior to concrete placement.
- Not recommended for application in mist, rain, or when rain is expected prior to adequate drying and sufficient reaction of bondbreaker coat with concrete casting surface. Applications subjected to these types of moisture exposures will require reapplication.
- If wet cure methods such as cellulose or synthetic curing blankets or polyethylene sheets are used, clean casting surfaces of all salt deposits on slab surface prior to application of bondbreaker. Salt deposits can result in surface defects and unacceptable mottling/staining of concrete surface.
- Use appropriate spray equipment and spray tip size to ensure a uniform, continuous application of bondbreaker. See the DIRECTIONS FOR USE Section above and the EUCOTILT BONDBREAKER APPLICATION GUIDE for more information.
- It is the contractor's responsibility to verify that the coverage rates and overall application of cure coat and bondbreaker is appropriate for the project's variables (concrete mix design, curing methods utilized, use of pozzolans, etc.) and site conditions (climatic or otherwise, etc.). If there are any questions or concerns, contact Euclid Chemical Company for technical assistance.
- In all cases, consult the Safety Data Sheet before use.

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