

EUCOTILT SB

SOLVENT BASED, REACTIVE CURE AND BOND BREAKER



EUCID CHEMICAL

PACKAGING

5 gallon (18.9 L) pails
Code: 071BBS 05
53 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.

See "COMPATIBILITY" section on page 2 for coverage rate information when using EucoTilt SB with other Euclid Chemical products.

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 bond breaker 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 bond breaker 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 BOND BREAKER 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)

Compatibility: EucoTilt SB is compatible with many of Euclid Chemical's accompanying flooring and coating products. Please see the below listing for specific instructions related to the combined use of EucoTilt SB and each product. When these instructions are followed, EucoTilt SB will not interfere with the prior or subsequent use of these Euclid Chemical products.

- **UltraSil DC9 - Water-Based Densifier and Cure:** It is acceptable to apply UltraSil DC9 to the fresh casting slab, immediately after finishing, to cure and densify the surface. This will be a substitution for the "cure coat" of EucoTilt SB (outlined in "Approximate Coverage" section on page 1). When this method is used for curing, EucoTilt SB will be used only for the bond breaker coats, and should be applied to the casting slab in two coats, at a coverage rate of 600 ft²/gal per coat.
- **Kurez DR VOX - Water-Based Dissipating Resin Curing Compound:** It is acceptable to apply Kurez DR VOX to the fresh casting slab, immediately after finishing, to cure the surface. This will be a substitution for the "cure coat" of EucoTilt SB (outlined in "Approximate Coverage" section on page 1). When using Kurez DR VOX in tilt-up applications with EucoTilt SB, it is necessary to fully strip and remove Kurez DR VOX prior to applying the subsequent bond breaker coats. When this method is used for curing, EucoTilt SB will be used only for the bond breaker coats, and should be applied to the casting slab in two coats, at a coverage rate of 600 ft²/gal per coat.

NOTE: Coverage rates for these "cure coat" substitutions 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. Over application of EucoTilt SB can lead to wall panel surface retardation/dusting and/or color irregularities. In addition, when EucoTilt SB is applied to casting slabs that have been cured with UltraSil DC9 or Kurez DR VOX, the bond breaker's chemical reaction with the concrete surface is affected. Due to this fact, EucoTilt SB can be partially removed if exposed to rain or other contact with water. If rain or other water contact occurs, it is critical to physically confirm the presence and uniformity of the EucoTilt SB film prior to casting wall panels, and re-coat areas if necessary.

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- **Euco Diamond Hard, UltraSil Li+, Eucosil - Silicate Densifiers:** It is acceptable to apply these products to a casting slab that was treated with EucoTilt SB, after all panel casting and erection has been completed. See the “Clean-Up and Removal” section below for guidance on preparation of the casting slab prior to densifier application. Once clean-up and removal is complete, proceed with the application of the Euclid Chemical densifier of choice, in accordance with the instructions on the product’s technical data sheet.

- **Tammscoat, Tammolastic, Aquastain - Acrylic Wall Coatings:** It is acceptable to apply these products to wall panels cast using EucoTilt SB. See the “Clean-Up and Removal” section below for guidance on preparation of the wall panels prior to coating application. Once clean-up and removal is complete, proceed with the application of the Euclid Chemical wall coating of choice, in accordance with the instructions on the product’s technical data sheet.

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.

Bond Breaker Application: Apply bond breaker 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 bond breaker 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 bond breaker coats prior to installation of reinforcing steel and lifting inserts, embeds, and hardware. Allow each bond breaker 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 bond breaker application, it may be necessary to reapply bond breaker. Verify bond breaker application and reapply, if needed. An adequate application of bond breaker 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 BOND BREAKER APPLICATION GUIDE* for more detailed instructions.

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 bond breaker, the casting surfaces and tilt-up wall panels will not require cleaning.
- Residual Bond Breaker:
 - If residual bond breaker 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 BOND BREAKER APPLICATION GUIDE* for more detailed instructions.
 - If residual bond breaker 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 BOND BREAKER 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, bond breakers, 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 bond breaker application, it may be necessary to reapply bond breaker. Verify bond breaker 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 bond breaker 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 bond breaker. 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 bond breaker. See the DIRECTIONS FOR USE Section above and the EUCOTILT BOND BREAKER APPLICATION GUIDE for more information.
- It is the contractor's responsibility to verify that the coverage rates and overall application of cure coat and bond breaker 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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