



EUCLOUD CHEMICAL

TILT-UP BOND BREAKERS

EUCOTILT WB & EUCOTILT SB



HIGH-PERFORMANCE SOLUTIONS FOR TILT-UP CONSTRUCTION

Tilt-up construction demands precision, speed, and durability—and Euclid Chemical delivers. Our integrated and compatible system of products, including curing compounds, bond breakers, densifiers, repair mortars, joint fillers, and protective coatings, is engineered to meet the specific challenges of the tilt-up process. When you're focused on achieving smooth panel separation, high-quality surface finishes, and long-term performance, our solutions work together to simplify the job and maximize results. Backed by proven field support and a commitment to innovation, Euclid Chemical is your trusted partner from the casting slab to the final lift.

FEATURES & BENEFITS

Complete System: Products work together for seamless performance from casting to finish

Clean Panel Release: Advanced bond breakers reduce defects and eliminate staining

Fast Drying: Quick cure times, even in cool or damp conditions

VOC Compliant: EucoTilt WB meets EPA and regional VOC regulations, including California

Coating Safe: Wax- and resin-free formulas won't interfere with finishes

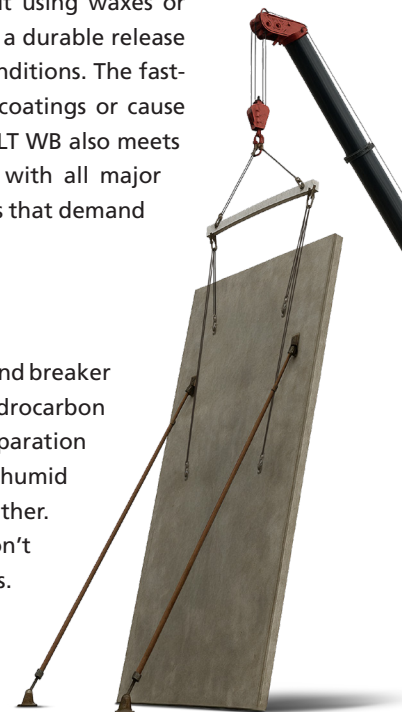
Proven Field Support: Backed by expert service and jobsite experience

EUCOTILT WB

EUCOTILT WB is a patent-pending, water-based cure and bond breaker that provides clean, reliable separation for tilt-up panels without using waxes or resins. Its reactive formula bonds with fresh concrete to form a durable release layer that stands up to rain, foot traffic, and cool or damp conditions. The fast-drying formula leaves no residue that could interfere with coatings or cause staining, helping reduce cleanup and surface repairs. EUCOTILT WB also meets ASTM C309 moisture retention requirements and complies with all major VOC regulations in North America, making it ideal for projects that demand clean release and coating-ready surfaces.

EUCOTILT SB

EUCOTILT SB is a solvent-based, chemically reactive cure and bond breaker that ensures consistent panel release without waxes or hydrocarbon resins. It reacts with fresh concrete to form a durable, clean separation layer. The fast-drying solvent system works well in cool or humid conditions, helping maintain productivity in tough weather. EUCOTILT SB leaves no staining or discoloration and won't interfere with coatings, reducing surface prep and touch-ups. It meets ASTM C309 moisture retention requirements and resists rain and foot traffic. EUCOTILT SB provides reliable performance in a wide range of jobsite conditions.





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WHAT IS TILT-UP CONSTRUCTION?

Tilt-up construction is a fast, cost-effective method of building where large concrete wall panels are cast horizontally on-site and then lifted into position. It's a preferred system for a wide range of buildings—including warehouses, schools, offices, and churches—thanks to its speed, efficiency, and versatility.



FASTER CONSTRUCTION

Panels are formed and raised quickly, shortening project timelines.



LOWER COSTS

Using local materials and labor helps reduce overall construction expenses.



FLEXIBLE DESIGN OPTIONS

Tilt-up supports a wide range of architectural styles and finishes.



LONG-LASTING DURABILITY

Concrete panels offer excellent strength and resistance to the elements.



SAFER JOBSITE CONDITIONS

Reduces the need for scaffolding and minimizes labor-intensive work.

BOND BREAKER BEST PRACTICES

Importance of Proper Curing for Panel Release

Effective curing is critical to achieving a strong, smooth panel release in tilt-up construction. The curing compound should be applied immediately after finishing the slab to retain moisture and ensure proper hydration. This results in a denser, less porous surface, ideal for clean, consistent separation. Proper curing also reduces surface defects and makes lifts easier. To prevent issues, always use a curing compound compatible with your bond breaker—using the full Euclid Chemical system ensures proven compatibility.

Cast Preparation

Before applying the bond breaker, all casting surfaces must be thoroughly cleaned. In hot weather conditions, it's important to pre-wet the slab before the first application. This step cools the substrate, reduces surface porosity, and satisfies the slab's moisture demand. After soaking, squeegee away any excess water and apply the bond breaker immediately.

Bond Breaker Application

When applying the bond breaker, always follow the instructions provided on the most current EucoTilt technical data sheet. The product must be applied evenly and carefully—puddling should be avoided to ensure uniform performance. A minimum of two coats is required, with the second coat applied perpendicular to the first to ensure full coverage and effective panel release. Tilt-up bond breaker application is critical, high-stakes work; inadequate curing or insufficient bond breaker application can lead to panels sticking, resulting in costly delays or damage.

Before placing concrete, it's important to confirm that the bond breaker has been applied correctly. There are three quick visual and tactile checks that can help verify proper coverage. First, the casting surface should have a uniform, consistent appearance without streaks or bare spots. Second, when you run your hand over the surface, it should feel slick, with a slightly filmy or soapy texture. Finally, when water is sprinkled on the slab, it should bead on the surface—indicating that the bond breaker is actively forming a barrier. These simple checks help ensure a clean panel release and reduce the risk of sticking.