

Tilt-Eez WB™

V.O.C. Compliant Waterbased Cure And Bondbreaker

Description

Tilt-Eez WB™ is a water based bondbreaker formulated of synthetic long chain film forming polymers and surface release additives. Tilt-Eez WB™ contains no silicones, waxes or other cheapening agents. Tilt-Eez WB™ dissipates or can be easily removed to allow for the effective application and performance of penetrating floor sealers/hardeners such as Conspec's Intraseal. Tilt Eez WB is V.O.C. compliant.

Manufacturer

Conspec
4226 Kansas Avenue
Kansas City, Kansas 66106
Customer Service (800) 348-7351
Technical Service (877) CONSPEC

Use

Tilt-Eez WB is a water based membrane forming curing and bondbreaking compound that is compliant with ASTM C-309 Type I, Class A&B.

Tilt Eez WB is the result of exhaustive research into the chemical needs of the tilt-up construction industry. Tilt Eez WB is V.O.C. compliant.

Tilt-Eez WB dries to foot traffic in minutes, rather than hours, allowing work to proceed faster and speeding project completion. This quick dry benefit reduces dirt build-up that permanently discolors panels that is prevalent on slow dry silicone and polybutene based bondbreakers.

Tilt-Eez WB may be used on a variety of casting bed concrete mix designs, including those containing fly ash and other additives.

Tilt-Eez WB forms a resinous film that dissipates and begins to break down in 4-6 weeks. The rate of dissipation is dependent upon climatic conditions, rate of application, exposure to ultraviolet light and construction traffic. After dissipation, residual material is normally easy to remove by pressure washing, allowing subsequent coatings or treatments, always consult with the coatings/sealer manufacturers for surface preparation instructions and always install a mock up and test for proper adhesion.

Note: To accelerate film removal, a stiff wire brush, light sandblasting or other mechanical means may be used.

Applicable Standards

Tilt-Eez WB exceeds the requirements of ASTM C-309-91, Type 1D, Class A and B and the Tilt-Up Concrete Association (T.C.A.) Guideline Specification for cure/bondbreaker.

Tilt-Eez WB is V.O.C. compliant.

Architectural Specifications

Bondbreaker Compound: A bondbreaker shall be applied to all concrete surfaces. The primary bondbreaker/cure coat application shall be applied at the rate of 250 sq. ft. per gal (6.2 m²/L). A second and third bondbreaker coat shall be applied to the casting bed at the rate of 400-600 sq. ft. per gal (9.8 - 14.7 m²/L). Approved product: Conspec Tilt-Eez WB™ or approved equivalent.

Application

Primary Bondbreaker/Cure Coat Application: The primary bondbreaker/cure coat is necessary not only to produce well cured, maximum strength concrete but is also the primary coat for effective bondbreaking. Tilt-Eez WB cure coat must be applied evenly at 250 square feet per gallon (6.2 m²/L) IMMEDIATELY following the final hard trowelling of the concrete, especially in hot, windy weather, with low relative humidity. Timing of this application is critical to ensure that a complete membrane is formed to adequately cure the concrete. In extremely hot weather, it may be desirable to fog-spray the slab immediately ahead of the cure and bondbreaker application. If moisture is not present at the time of application,

the material may be absorbed into the concrete leaving no membrane to cure or separate the tilt-up panel.

In cold, damp weather, less material may be required. Tilt-Eez WB will freeze, separate or greatly increase in viscosity at temperatures below 32°F (0°C). Cold weather construction practices such as ACI guidelines for cold weather concreting should be followed. Never apply Tilt-Eez WB to a frozen or frost filled casting slab. **DONOT ALLOW TILT-EEZ TO FREEZE.**

Concrete placed in the same area under the same ambient conditions may have different absorption rates which can cause the Tilt-Eez WB to be absorbed at different rates. Care should be taken during application to ensure that a uniform, complete film is formed, avoiding over-application. It can be pointed out that the quantity of material used in the cure coat - the most important coat - will be less, if applied at the proper time.

Bondbreaker Coat: Agitate thoroughly before use. Tilt-Eez WB must be applied just prior to placement of reinforcing steel in two light coats at 400 to 600 square feet per gallon (9.8 - 14.7 m²/L) in two different directions at 90° right angles to each other allowing a minimum 30 minutes between coats or such time as needed to allow the first coat to become tack free. Spraying at right angles helps assure complete, uniform coverage. Care should be taken to ensure that the bondbreaker coat is not contaminated before drying by particulate matter (i.e. dust, dirt, etc.). Any puddles of bondbreaker should be removed by wiping up immediately prior to drying.

Always test for proper bondbreaker installation by identifying the presence of a cured, tack free continuous Tilt-Eez WB membrane throughout the panel area. If this membrane is hard, intact and can be scratched-off with a knife, the panels will part. If no membrane is present or if water sprinkled on the surface is immediately soaked into the casting bed, re-spray Tilt-Eez WB. Application rates allow for variables in the condition of the casting bed and weather.

In severely hot, dry weather, strict adherence to ACI Committee Report 305R will prevent improper hydration of the panels.

Do not over-apply. Over application can transfer to the tilt panels and create the need for additional surface preparation of both the casting slab and tilt panel prior to subsequent application of coatings or sealers. Allow Tilt-Eez WB to completely dry before placing the tilt panel concrete.

Casting Over Old And Porous Concrete: When casting over porous concrete or an existing old slab, it is imperative to ensure that a membrane is created on the surface. Thoroughly soaking the casting slab surface with water, create a surface saturated dry (SSD) condition will help retain the Tilt-Eez WB membrane on the surface where it is needed. Once the membrane is verified, normal bondbreaking methods may be employed.

Waste Slabs: Some job conditions require casting thin temporary slabs for stacking tilt-up panels. When even a small amount of bonding occurs, the thin casting slab, due to its lack of mass, may be lifted with the panel.

As the waste slab is ultimately to be removed, it is often considered unnecessary to properly finish and cure the waste slab. It is imperative to properly design, finish and cure the waste slabs to avoid panel sticking. A few waste slab guidelines are as follows:

1. Cast the temporary slab at least 3"(7.6 cm) thick.
2. Moisten the earth prior to placement.
3. Hard trowel finish as with permanent floor slabs.
4. Spray cure coat of bondbreaker immediately after trowelling. Ensure proper application rate by the visible appearance of the fugitive dye remains for at least five minutes.
5. Prior to placement of the tilt-up panel, test for proper application of the Tilt-Eez WB by sprinkling water on the surface. If waster is readily absorbed into the casting bed or the lack of a continuous visible membranes is apparent, re-apply.

Packaging

55 gallon drums (208.2 liters)
5 gallon pails (18.9 liters)
1 gallon cans (6 to a case)(3.9 liters)

Limitations/Precautions

**KEEP FROM FREEZING.
ALWAYS AGITATE THOROUGHLY
BEFORE EACH USES.**

Caution...Combustible. Contains petroleum distillates. Keep out of reach of children. Do not take internally. Do not breathe vapors. Avoid prolonged contact with skin. If swallowed, do not induce vomiting - call physician. If splashed in eyes, wash repeatedly with clean water and call a physician. Keep away from heat, sparks and open flame.

Recommended safety equipment: Rubber gloves, goggles and if applied in areas of poor or inadequate ventilation, use mine safety appliances, mask and canister:

Organic Vapor Mask
(No. 457081)
Organic Vapor Canister
(No. 77705GAM)

Threshold limit value: 100PPM. Ventilation system should be capable of exchanging total air volume in application area in 30 minutes or less.

Avoid hazards by following all precautions found in the Material Safety Data Sheet (MSDS), product labels and technical literature. Please read this information prior to using the product.

V.O.C. Content

Less than 600 g/l. Complies with Federal V.O.C. standards for Bondbreakers. Do not thin or dilute.

Warranty

Conspec warrants, for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Conspec, the product is free of manufacturing defects and conforms to Conspec's published specifications in force on the date of acceptance by Conspec of the order. Conspec shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Conspec's instructions in this technical data sheet. The purchaser must examine the product when received and promptly notify Conspec in writing of any non-conformity before the product is used, or no later than 30 days after such non-conformity is first discovered. If Conspec, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty. Only a Conspec officer is authorized to modify this warranty. The sales information on the Conspec website and received by the customer during the

sales process does not supersede this warranty and the specifications of the product in force on the date of sale. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

Limitation of Liability

Conspec shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, this Agreement, even if Conspec could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this agreement, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.

Storage

Tilt-Eez WB should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head. **Agitate will before use!**

Do Not Allow To Freeze!

Technical Services

Complete technical and specification services are available from the manufacturer and their authorized representatives and distributors.

Filing System

Additional literature and the Material Safety Data Sheet can be obtained from Conspec upon request.