

TECHNICAL DATA SHEET

Product: NORTHWEST BONDBREAKER FD
Revision Date: 7/8/2021

DESCRIPTION

NORTHWEST BONDBREAKER FAST DRY is a chemically reactive fill up bond breaker specially engineered to provide a clean, easy lift of tiltup panels. NORTHWEST BONDBREAKER FAST DRY is formulated with a unique solvent blend allowing fast-drying, solvent-base performance along with VOC compliance in the OTC/LADCO/MRPO regions.

- Fast drying for improved productivity in cool damp climates
- Chemically reactive
- Clean panels - no residue, stain, or discoloration
- Resists foot traffic abrasion
- OTC/VOC compliant less than 350g/l

APPLICATION

Curing New Concrete:

Ready to use. Do not dilute. When used as a cure, NORTHWEST BONDBREAKER FAST DRY should be applied immediately after the final steel troweling, after the surface water has disappeared. Waiting too long to apply the cure coat can result in porous, dry casting slabs that will not yield favorable results. The entire slab must be completely covered. When applied on tightly steel troweled concrete, NORTHWEST BONDBREAKER FAST DRY meets the moisture retention requirements of ASTM C-309. Typical application for curing is 200-400 sq ft per gallon. This is the first and most important coat. Enough product must be applied to allow it to remain on the surface of slab without being sucked into the slab's pores and without puddling. Heat, low humidity and wind make it more imperative to apply cure coat immediately after finishing.

Bondbreaker Coats:

Casting slab must be properly cured, smooth, and dense. Remove all dust, dirt, and other contaminants prior to application. NORTHWEST BONDBREAKER FAST DRY should be applied just prior to placing reinforcing steel and within two weeks of pouring panels. Spray apply at 400 sq ft per gallon or to the point of rejection. Wait until dry and then apply a second coat at right angles to the previous coat. Coverage rate of second coat is typically 500 - 700 sq ft per gallon. Complete uniform coverage is necessary on casting slab. If treated slab appears uneven or has light colored spots, this may indicate a porous slab that requires additional applications of bondbreaker. If after additional applications, these light spots persist, thoroughly wet affected areas with water to fill concrete pores. Squeegee off excess water and then immediately reapply NORTHWEST BONDBREAKER FAST DRY. Allow bondbreaker to thoroughly dry. An adequate application is indicated only by the presence of a dry soap like feel apparent to the touch over the entire treated slab. Do not allow foot traffic until the slab is thoroughly dry.

Hot Weather Conditions:

Hot weather can cause premature drying of the concrete casting slab surface, causing it to be overly-porous, exhibit

cracking and crazing and have reduced surface strength. The use of an evaporation retardant such as EucoBar, can greatly reduce the possibility of plastic shrinkage cracking, crazing, and uneven/wavy surfaces. One of the best ways to offset the effects of hot weather is with modified curing and bond breaker application techniques. MASCO makes the following recommendations when using NORTHWEST BONDBREAKER FAST DRY:

- 1) Apply the NORTHWEST BONDBREAKER FAST DRY cure coat immediately after final finishing and preferably prior to control joint cutting. Apply to the point of uniform surface film accumulation. Slabs with exceptionally porous surfaces or rougher finishes may require heavier applications to ensure adequate holdout and uniform surface accumulation. The cure application is the most critical to assure an adequate base for the subsequent bond breaker coats. In hot weather, the proper timing and application rate are essential and the cure coat should be applied at a minimum 250-300 sq-ft per gal.
- 2) Immediately before application of the NORTHWEST BONDBREAKER FAST DRY coats, saturate the casting slab surface with water, thoroughly removing the excess water with a squeegee or oil-free compressed air. This practice is especially recommended if the slab was improperly cured, the application of the cure coat was delayed or if the slab is suspected of being porous. This step allows the water to "take up" any remaining porosity just before the bond breaker coats are applied.
- 3) Apply two NORTHWEST BONDBREAKER FAST DRY coats at right angles until the casting slab surface appears uniformly dark for a minimum of 2-4 hours and has a dry, soapy feel in all areas. Do not allow NORTHWEST BONDBREAKER FAST DRY to accumulate in low spots or depressions (Refer to the BONDBREAKER "Application" section for more information).

Panel Concrete Placement: Very porous casting slabs can cause the "osmotic effect" to occur, even when adequate bond breaker has been applied. In simple terms, the "osmotic effect" refers to the natural tendency of water to migrate from wet to dry. This means that when fresh panel concrete is placed on a porous casting slab, water will migrate from the fresh concrete into the dry casting slab, leaving the wall panel surface concrete without adequate water for proper hydration. This can result in dusting or skin pull off on the panel surfaces.

To minimize the osmotic effect immediately prior to placement of the panel concrete, saturate the casting slab with water, thoroughly squeegee off or blow off the excess water with oil-free compressed air. No surface water should be present on the casting bed surface prior to panel concrete placement.

Bondbreaker Coat on Old Concrete:

Verify that the concrete surface is free of curing compounds or other substances that could adversely affect the performance of NORTHWEST BONDBREAKER FAST DRY. The slab must be smooth, dense, well cured and clean. Prior to placing

NORTHWEST BONDBREAKER FD | technical datasheet

reinforcing steel and within two weeks of pouring panels, thoroughly wet the casting slab with clean water to fill concrete pores. Squeegee off excess water then apply NORTHWEST BONDBREAKER FAST DRY to the damp slab to the point of rejection, typically 300 - 500 sq ft per gallon. Allow to dry and then apply a second coat at the same rate but at right angles to the previous coat. Allow to thoroughly dry. As before, if light colored areas appear after drying, a porous slab may be indicated and reapplication will be necessary. The application rate can vary greatly depending upon the porosity of the slab and the ambient conditions. Do not under or over apply. It is the contractor's responsibility to ensure the even presence of NORTHWEST BONDBREAKER FAST DRY at the surface of the casting slab prior to pouring concrete. Do not allow foot traffic until the slab is thoroughly dry.

Before Pouring Concrete:

Verify that the entire treated surface has a dry soap like feel to the touch. Test casting slab by sprinkling a few drops of water in several places. The water should bead up like on a newly waxed car. In hot and/or dry weather, mist or fog the entire slab with water prior to pouring concrete. Avoid scouring the casting slab surface by using a deflection board. Heavy rains or rains prior to bondbreaker coats drying may necessitate reapplication.

Stack Panels:

Extra care must be used with stack panels as they tend to transfer water across their interface, increasing the possibility of the "osmotic effect" that leads to sticking. It is recommended that NORTHWEST BONDBREAKER FAST DRY be applied as the cure coat @ 200-250 sq-ft per gallon prior to the bondbreaker coats between each layer to decrease the chance of sticking (see Application/Bondbreaker Coats)

Painting of Panels:

If NORTHWEST BONDBREAKER FAST DRY has been properly applied and has not been over applied, painting of the panels can be performed as soon as the moisture content in the concrete is at an acceptable level for the paint manufacturer. Coating manufacturer's instructions for surface preparation and application must be followed and supersedes information in the data sheet.

Other Instructions:

Not recommended for use as a bondbreaker on broom or rough finished concrete surfaces. Spray apply for best results. Job site conditions can vary greatly. Always ensure the complete presence of bondbreaker prior to pouring panels. Contact Masons Supply Company technical service for additional instructions or recommendations.

EQUIPMENT

Use a hand pump spray can like the Chapin X-Treme sprayer for chemical resistance to higher concentrations of solvents, or a low-pressure, high-volume power sprayer, fitted with a high-chemical resistant hose and gaskets. NORTHWEST BONDBREAKER FAST DRY should be applied in accordance with the recommended Application procedures to achieve even and uniform coverage. Equipment should be clean and dry prior to use.

CLEANING

Tools, sprayers, and other equipment may be cleaned with mineral spirits or other approved solvents. With proper application, the casting slab and panels will not require

cleaning, but may be washed with a mild detergent or power washed to remove any over application.

LIMITATIONS

- NORTHWEST BONDBREAKER FAST DRY dries much faster than standard solvent-based products. Tip: When spraying NORTHWEST BONDBREAKER FAST DRY keep pressure in pump up sprayers as high as possible to ensure a steady and even spray pattern. Maintain the sprayer tip near the concrete, within 12 inches.
- Mix Design: The use of pozzolans such as flyash and slag in the casting bed typically slow the rate of hydration, and reduce bleed making the casting bed more susceptible to drying shrinkage and increase surface porosity at the time of cure application. This increased porosity will require a heavier cure coat to achieve adequate hold-out. Contact Masons Supply Company for further information.
- Masons Supply Company strongly recommends that no pozzolans be used in the panel concrete.
- Avoid over application. NORTHWEST BONDBREAKER FAST DRY must be completely dry prior to pouring concrete. Do not walk on bondbreaker until completely dry. For best performance, mist the pour area with water immediately before pouring concrete.
- Do not apply below freezing (32°F) Concrete must be free of frost or any contaminants prior to application.
- Do not store below 32°F without conditioning at room temperature for 24 hours prior to application.
- Important: If the concrete is cured without using MASCO NORTHWEST BONDBREAKER FAST DRY, please contact a Masons Supply Company representative.
- Other bondbreakers, sealers or cures are not compatible with NORTHWEST BONDBREAKER FAST DRY..
- When casting on waste slabs it's recommended a minimum of 3,000 psi mix design with rebar should be utilized for proper separation of panels.
- HOT WEATHER - Best results are obtained if casting slab is sprayed with clean water before pouring (See Hot Weather Conditions).
- Not for use on broom finished concrete.
- Contact manufacturer for instructions for use on sand-bed-exposed aggregate panels.
- Do not apply to reinforced steel.
- Puddles, runs and excess material must be avoided. Wipe up with squeegee or rags.
- Avoid spray drift.
- When applied according to manufacturer's instructions, NORTHWEST BONDBREAKER FAST DRY does not alter the bondability of concrete for subsequent paints and coatings. Always follow the paint or coating's application instructions. NORTHWEST BONDBREAKER FAST DRY instructions do not supercede the paint or coating manufacturer's preparation or application instructions.
- Foot traffic should be avoided on sprayed areas until dry.
- Rain occurring prior to product drying will necessitate reapplication after slab dries.
- Avoid scouring slabs or panels when pouring concrete.

DO NOT EXPOSE TO OR APPLY NEAR FIRE OR FLAMES. FOR WELL VENTILATED OR EXTERIOR USE ONLY!

NORTHWEST BONDBREAKER FD | technical datasheet

PACKAGING

NORTHWEST BONDBREAKER FAST DRY is packaged in 55 gallon drums and 5 gallon pails.

SHELF LIFE

Store material in the original tightly closed containers. Do not allow the accumulation of water, dirt, or other contaminants. The shelf life of properly stored NORTHWEST BONDBREAKER FAST DRY is two years from the date of manufacture.

PRECAUTIONS

**DO NOT CUT OR WELD CONTAINER
FLAMMABLE LIQUID
KEEP AWAY FROM OPEN FLAME
INDUSTRIAL USE ONLY**

Additional precautions, safety information and first aid are contained in the Safety Data Sheet.

TECHNICAL SERVICE

For application procedures or surface conditions not specified above, please contact:

MASONS SUPPLY COMPANY
2637 SE 12th Ave.
Portland, OR 97202
(503)234-4321, FAX (503)234-5606
masco.net

DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY

MASONS SUPPLY CO. (Seller) warrants that if any goods supplied prove defective in workmanship or material, that Seller shall replace them or refund their purchase price. THIS WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND/OR FITNESS WHICH ARE HEREBY DISCLAIMED. IT IS UNDERSTOOD AND AGREED THAT BUYER'S SOLE REMEDY, AND THEREFORE SELLER'S LIABILITY, WHETHER IN CONTRACT, TORT, UNDER ANY WARRANTY, IN NEGLIGENCE, OR OTHERWISE SHALL BE LIMITED TO THE RETURN OF THE PURCHASE PRICE PAID BY PURCHASER OR REPLACEMENT OF ANY DEFECTIVE GOOD'S SOLD BY SELLER AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. THE PRICE STATED FOR THE GOODS IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY. Before application, the User shall determine the suitability of the product for his intended use and User assumes all risks and liabilities whatsoever in connection therewith. The terms of this paragraph may not be orally modified. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.