

DRiBOND®

DRiBOND Concrete Overlay Solutions, LLC

DRiBOND® Advanced Dry Mudset for Concrete Overlays

UPDATE

January 9, 2025

Make sure that you have an up-to-date technical data sheet in hand by consulting our website: www.dribondsolutions.com
U.S.A. and Canada: dial 1-888-717-4010

APPLICATIONS

- Residential projects: driveways, sidewalks, pool decks, patios, courtyards and garage floors.
- Commercial and industrial projects*: parking lots, rooftop patios & pool decks, low-speed roadways (such as gated community).
- Traffic limitations*: Occasional heavy vehicles up to 100,000 ESALS. Gross Vehicular Weight should not exceed 65,000 lbs. Examples of acceptable vehicles include garbage trucks, fire trucks and street sweepers. The speed limit should not exceed 35 mph.
- Ideal for concrete overlays with concrete pavers from 30 mm to 100 mm, travertine, clay pavers, outdoor porcelain tiles and natural stone.

* Please contact your DRiBOND® sales representative for any projects outside the application range.

DRiBOND® is **not recommended** for:

- Vertical surfaces
- Underwater surfaces
- Asphalt
- Substrates other than concrete

PROPERTIES

- Dry application
- Polymer-modified
- No mixing
- Inhibits weed growth

DESCRIPTION

DRiBOND® is a polymer modified dry mudset. It bonds pavers over existing concrete surfaces to enhance and beautify any horizontal concrete surface with the look and feel of traditional pavers.

PRODUCT SPECIFICATIONS

ASTM C579, Compressive Strength: 6,850 psi

ASTM C666, Freeze-Thaw Ratio: 94% (Note: For installations in freeze-thaw regions, please contact ®)

ASTM C308, Final Set-Time: 5:40

Maximum Depth: 1"

Maximum Variance: 5/8"

Paver Thickness: From 1" to 3 15/16" (30 to 100 mm)

Jointing Sand:

Pedestrian applications or joints less than 1/16" (2 mm) wide: Mason or paver sand can be used.

Vehicular applications or joints more than 1/16" (2 mm) wide: Polymeric sands could be used once the DriBond® has set. A roller compactor must be used when installing the polymeric sand.

Paver Size:

Pedestrian applications: up to 24" X 24" (61 cm X 61 cm)

Vehicular applications: up to 15" X 15" (38 cm X 38 cm). Pavers should have lugs of at least 1/8" (3 mm).

DIRECTIONS

BEFORE YOU BEGIN

Before proceeding with the installation, make sure you have an up-to-date technical data sheet in hand and visit Dribondsolutions.com to watch the application video. Make sure you have access to running water during the preparation and the installation. **It is the responsibility** of the user to determine the suitability and compatibility of this product for the intended use before installing it (see full warranty).

Make sure you have all the appropriate individual protective equipment such as safety glasses and masks.

Installation Conditions:

- Concrete surface must clean and dry
- Concrete slab must be sound
- Temperature must be above 32°F for 48 hours following installation
- There should be no rain during installation
- Sprinkler system must be turned off

Necessary tools - System Installation (DRiBOND® & ST300 Screed Tool):

- Garden hose with shower head
- Measuring tape
- Chalk line
- Leveling guide such as a two feet long piece of 2 by 4
- Heavy-duty breaker hammer
- Wheelbarrow or any suitable mixing container
- Cut-off saw with diamond blade
- 48 oz. cross pein hammer
- Rubber mallet
- Push broom
- Shovel or garden hoe
- Mixing whip and drill (optional)
- 1/2" x 1/2" square notch trowel or margin trowel
- Bucket and sponges



DRiBOND screed tool

Surface Preparation (essential):

Repairing Major Breaks & Cracks:

DRIBOND® can be used over stress cracks. Any crack or separation 3/4" wide or larger must be filled with cement and covered with a crack isolation membrane. Large cracks and damaged sections must be cut to full depth as shown below and repaired with concrete.



For extensive damage or when changing the footprint of the driveway, rebar should be used, along with concrete to make the repairs.



Once the damaged concrete is removed, cut V-shaped notches in the existing concrete substrate. This will help tie-in the new concrete to the existing concrete.



Next, fill 75% of the area with concrete. The balance should be floated with a wet mix of DRiBOND®. Completely cover the notches that were cut in the substrate and allow the patch to dry overnight.



Power wash the surface to remove any dirt from the area to be covered, leaving a clean surface. Let surface dry completely before applying DRIBOND®.

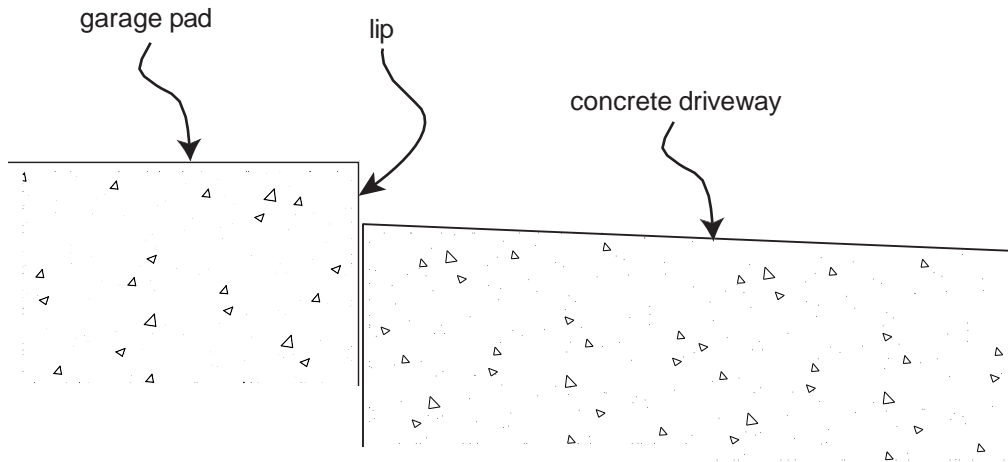


Preparing the garage transition area when required (measures given for 30 mm pavers):

When installing pavers with DRiBOND®, it may be possible to encounter a garage transition that has a lip, or height difference from 1/2" to 1", as shown below. Depending on the amount of slope in the driveway, it may be necessary to cut and chisel away the existing concrete where it meets up with the garage opening, or transition area into the garage, to eliminate any potential for a trip hazard, while maintaining the ability of the garage door gasket to properly seal and protect the garage from the elements. Thus, prior to the installation of pavers with DRiBOND®, visually inspect this area to determine the course of action that will be required.

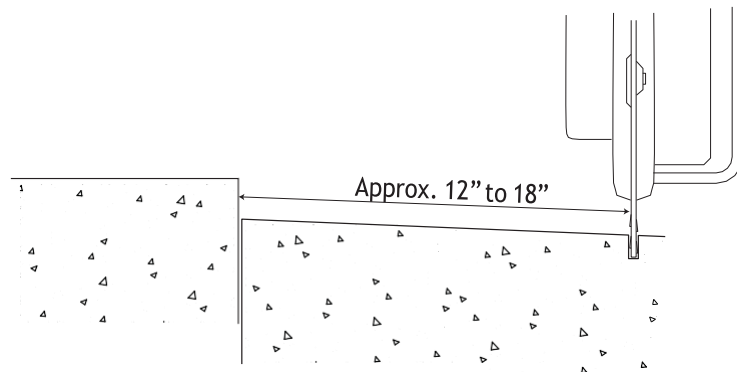
If the lip is at least 1 1/2" high, no modification of the existing concrete may be required. However, when the lip is less than 1 1/2", cutting and chiseling may be necessary to create the desired transition, while maintaining the proper slope. The amount of modification depends on two factors:

- Height of the lip at the garage door
- Amount of slope in the driveway

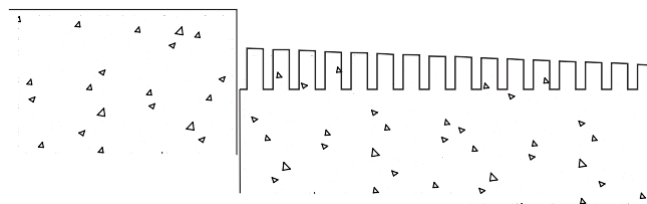


Follow this procedure to prepare the transition area:

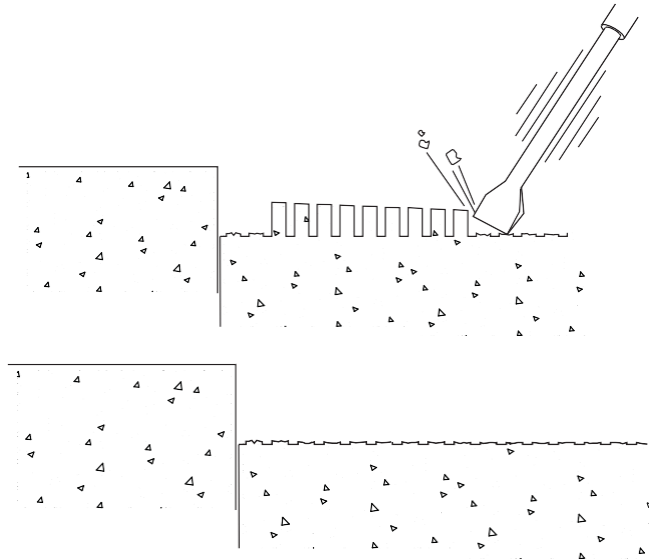
1. Using a cut-off saw, make cuts parallel to the garage door opening, beginning at approx. 12” to 18” from the opening.



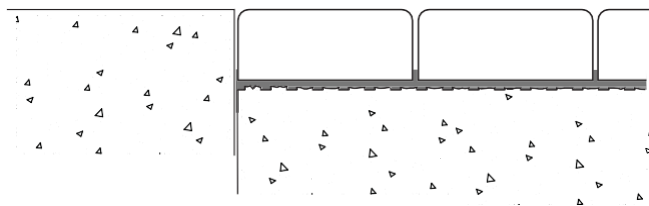
2. Start by making the first cuts at a depth of 3/8” at the furthest point away from the opening and make progressively deeper parallel cuts as you get closer to the opening, where the final cut will be to the depth required to make for a smooth, weatherproof transition. The number of parallel cuts that must be made will depend on the height of the lip, and the distance from the transition area into the garage, to where the first cut is made.



- Once all cuts have been completed, you will need to utilize a jack hammer or a hammer drill to remove the concrete between cuts, taking precaution to gently chisel away the concrete at the cuts closest to the garage door transition lip.



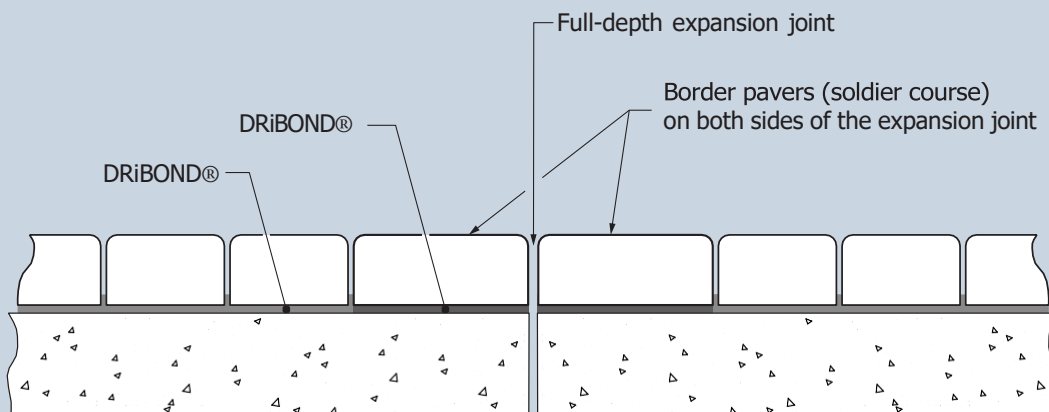
- Once all loose, chiseled concrete has been removed, mix the required amount of DRIBOND® with any thin set if you prefer to be the sole wetting agent, and neatly trowel into the transition area as required. Proceed to lay the field/border pavers at the transition area, as well as tamping and leveling them lightly to the desired slope, seamlessly creating a smooth transition.



- As a final preparation, remove stains with stain removers.
- Power wash the entire surface.

Expansion Joints:

For full-depth expansion joints, typically seen in commercial projects (see figure below), each side of the joints should be treated like a border area using the wet mortar DRIBOND® mix. **No pavers** should be installed over full-depth expansion joints.



Product Application:

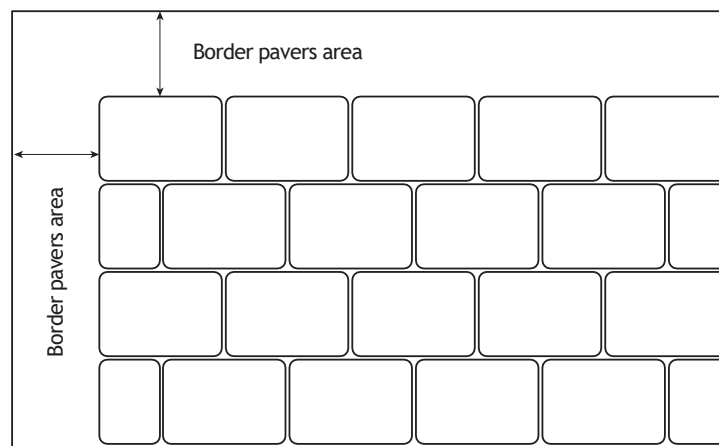
1. Open the DRiBOND® bags and carefully pour the product over the surface. Spread the product with the screed tool, leveling the DRiBOND® at the **recommended thickness of 1/4" to 3/8"**. Cover the areas that were patched with cement. For uneven surfaces or dips, consider increasing the recommended thickness to a maximum of 1" to level out the surface.



2. Without walking on the DRiBOND®, lay pavers, square to the structure, or create a right angle to start the field according to the selected pattern.



3. Leave a border of one full paver from each edge, making room for the border pavers.



- Every 10 rows, use a straight edge to true up lines.



- After the field pavers have been placed, use a PVC pipe or string line and mark the field pavers.



- Then cut with a cut-off saw to create a clean border, remove the cut pieces and the DRIBOND® powder outside the field.



- Cut two grooves in the existing concrete slab at the border. This enhances bond strength when the border pavers are installed.



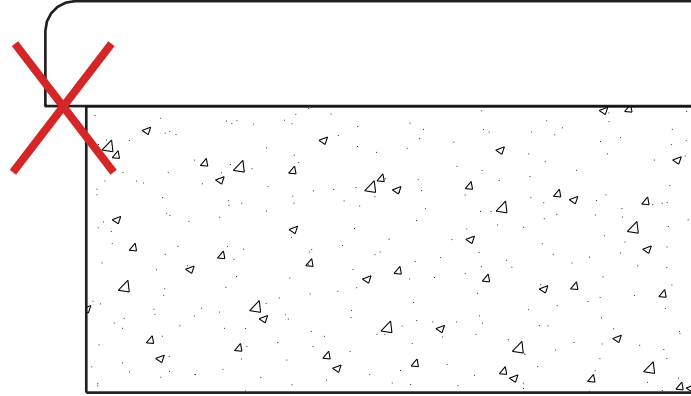
- Clean the border surface to remove all loose particle.
- Mix one bag of DRIBOND® withTo obtain a more uniform consistency, it is highly recommended to mix both products gradually, in two or more doses. Mix must have a smooth, creamy consistency.
- Using a 1/2" x 1/2" square notch trowel or a margin trowel, apply mix to the borders and transitions as necessary. This will create a mortar bed on which to lay the pavers.



- Lay border pavers. There should be no air pockets or voids under the border tiles.



Never allow the border pavers to protrude past the edge of the existing concrete.



12. Remove any excess product from the edge of the finished paved area. The photo below shows a proper border paver installation.



13. Tie the pavers into the street surface and other areas such as sidewalks and garage pads.

14. After the border pavers have been placed, activate DRiBOND® by evenly wetting the surface using a nozzle on a hose set to “shower”.

Watering time varies greatly and is dependent on the paver size (surface area) and DRiBOND® depth. Use the tables below to calculate the recommended total watering duration for each project to ensure proper saturation and activation of DRiBOND®. These tables are based on 500 sq. ft. coverage areas.

PAVER SIZE	WATERING DURATION
Up to 12" X 12"	15 minutes
13" X 13"	17 minutes
14" X 14"	18 minutes
15" X 15"	20 minutes
16" X 16"	21 minutes
17" X 17"	23 minutes
18" X 18"	24 minutes
19" X 19"	26 minutes
20" X 20"	27 minutes
21" X 21"	29 minutes
22" X 22"	30 minutes
23" X 23"	32 minutes
24" X 24"	33 minutes

TABLE A

DRIBOND® DEPTH	WATERING DURATION
Up to 1/4"	0 minutes
3/8"	5 minutes
1/2"	10 minutes
5/8"	15 minutes
3/4"	20 minutes
7/8"	25 minutes
1"	30 minutes

TABLE B

WATERING DURATION CALCULATION

$$\text{WATERING DURATION} = \text{TABLE A} + \text{TABLE B} \times (\text{TOTAL SQ. FT.} / 500)$$

Example (highlighted in green in the tables above):

For a 1000 sq. ft. area with 15" x 15" pavers and 1/2" DRiBOND® depth:
 20 min. + 10 min. x 2 (1000 / 500) = **60 minutes**

Note: If installing multi-size pavers, use the largest piece for the calculation.

Note: On projects where watering times exceeds 3 hours, sprinklers may be used. However, it is important to ensure they are continuously wetting all areas evenly. In these situations, it is recommended to water by hand using a shower nozzle on a hose for a minimum of 2 hours before switching to sprinklers.

15. Check proper DRiBOND® activation. With a hammer, lightly tap on a few pavers to verify if DRiBOND® is completely activated with water. A hollow sound can be heard where the product is still dry underneath the pavers.

16. Install jointing sand:

Mason or paver sand: Spread jointing sand on the pavers. Sweep the jointing sand across the entire area and fill the joints. While pushing the sand into the joints, soak the entire paved area a second time. Don't be afraid of over-soaking the pavers.

Polymeric sand: Follow the manufacturer's directives and recommendations.

Note: Polymeric sand can be installed 72 hours after the DRiBOND®/pavers installation (weather permitting).

CURING AND DOWNTIME

For pedestrian applications with joints 1/16" (2 mm) or less: No downtime

For vehicular applications: Follow the DRiBOND® manufacturer's recommendations

COVERAGE

One 50 lb. bag will cover approximately 30 square feet with 1/4" DRiBOND® thickness. Project Estimator - approximate with 1/4" DRiBOND thickness.

TOTAL PROJECT SIZE	TOTAL NUMBER OF DRIBOND® BAGS NEEDED	BORDER WIDTH	COVERAGE PER 1.58 GAL (6 L) OF BORDERBOND®	DRIBOND® BAGS NEEDED
100 sq. ft.	3	4"	90 - 120 linear feet	1
500 sq. ft.	17	6"	60 - 70 linear feet	1
1000 sq. ft.	33	9"	40 - 45 linear feet	1
1500 sq. ft.	50	12"	30 - 35 linear feet	1
2000 sq. ft.	67			

STORAGE

Ideally, store bags inside, away from water and moisture. Unopened bags may be stored outside if they are still on the pallet, covered and protected by the original packaging.

SHELF LIFE

18 to 24 months when stored inside in its original, unopened packaging at a temperature ranging from 50 to 85°F.

HANDLING AND SAFETY

For information and advice regarding transportation, handling, storage, first aid and disposal of chemicals products, users should refer to the actual Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF THE REACH OF CHILDREN

SHIPPING

Land and sea

NOT REGULATED

PACKAGING

DriBond®	Product Code	Color	Retail Size	Units per pallet
		N/A	50 lb. (bag)	56

LIMITED 10 YEAR WARRANTY (COMPLETE WARRANTY AVAILABLE AT WWW.DRIBONDSOLUTIONS.COM)

This warranty covers all DRiBOND® Products used in residential and commercial installations subject to light traffic that are within the scope of the terms set forth below. This warranty only applies to DRiBOND® Products that have been used within 3 months of purchase and stored in a cool, dry place. Exposure to water or excessive humidity prior to application voids any warranty. DRiBOND Concrete Overlay Solutions, LLC does not guarantee an installer's finished work. DRiBOND Concrete Overlay Solutions, LLC warrants that its Products will be free from manufacturing defects when used in accordance with (a) our technical data sheets and other written instructions in effect on the date of its application or installation, (b) applicable building codes and regulations, and (c) standard industry practices. For purposes of this warranty, DRiBOND® Products currently include: DRiBOND® and the ST300 Screed Tool. It is a condition of warranty coverage that the DRiBOND® Products are used for their intended purpose and that the area and materials used in conjunction with any DRiBOND® Product are properly prepared and of such quality so as to not break or deteriorate when coming into contact with any DRiBOND® Product. No representation, promise, pre-approval, affirmation, statement, or demonstration by any employee or agent of DRiBOND Concrete Overlay Solutions, LLC shall modify or supersede the terms of this warranty.