



EUROSTONE BOND
FOR NATURAL STONE PAVER JOINTS UP TO 1.5" (3.8 CM)
 TDS Revision Date (dd/mm/yyyy): 03/08/2021

TECHNICAL DATA SHEET

- Update:** August 3, 2021
 Make sure you have an updated data sheet on hand.
 Canada and U.S. dial **1-855-847-7767** or (450) 624-1611
- Description:** **EUROSTONE BOND** is the first polymeric sand, that meets ASTM C144 gradation, specifically designed for natural stone pavers. It can be used in an application for traditional and overlay base systems. It is perfect for stone roads, piazzas, driveways, pathways & stone apron driveways. This complete multi-purpose sand is available in four colors: Beige, Slate Grey, Ivory and Black Diamond. It sets above the freezing temperature 32°F (0°C) and can be used for joints up to a maximum of 1.5" (3.8 cm).
- Features:**
- Can be used for stone joints up to a maximum of 1.5" (3.8 cm).
 - Helps prevent weed sprouting and the damage caused by insects.
 - Helps prevent erosion due to climatic conditions, such as wind, rain and freezing.
 - Sets at above freezing temperature 32°F (0°C).
 - **EUROSTONE BOND** can be applied in **traditional base systems**, sets within 1 hour after water activation at above 32°F (0°C) (No rain should occur within 1 hour after water activation).
 - **EUROSTONE BOND** can be applied in **Overlay base systems**, sets within 24 hours after water activation at above 32°F (0°C) (No rain should occur within 24 hours after water activation).
 - Does not haze natural stone pavers.
 - Waterproof bags can be laid flat and stored outdoors. (Lay bag flat on its back, so front of the bag is facing you.)
 - It is mandatory to have a minimum 2% top surface slope for proper water run off.
 - Will resist mechanical brooming.
- Warning:** Do not apply if the natural stone pavers is damp or wet. The damp or wet surface will cause **EUROSTONE BOND** to prematurely activate and will lead to the polymers sticking on the stone surface. Do not apply if the natural stone paver joints are damp or wet. This will prevent the **EUROSTONE BOND** from properly sliding into the joints and obtaining very densely packed joints, which is critical to the products performance. Do not use if rain is expected within 24 hours. Avoid excessive watering or flooding of natural stone paver surface. For all natural stone paver surfaces, and particularly around in ground pools there must be a slope of 1/8 in. (3 mm) per linear foot away from the edge of the pool, or structures, to ensure optimal performance of the **EUROSTONE BOND**. For the pool coping units it is mandatory to use mortar in the joints. For the rest of the natural stone paver installation around the pool, you can use **EUROSTONE BOND**. Do not sweep **EUROSTONE BOND** over asphalt. Insure that **EUROSTONE BOND** lies at least 1/8 in. (3 mm) below the top of the natural stone pavers or erosion may occur. The filled and cured polymeric sand joints should never be in direct contact with foot traffic or tires. The product must only be used as a recessed jointing material.
- Moss:** **EUROSTONE BOND** will not cause nor prevent moss, mold or mildew. Moss, mold and mildew are caused by certain on site conditions, including excess moisture, shade, absence of ventilation, inadequate cleaning or maintenance, presence of soil or other organic debris left on the product.
- Coverage:** Quantity required depends on the shape and size of the natural stone pavers as well as the width of the joints. For Black Diamond Sand consider a 10% decrease in coverage.

EUROSTONE BOND COVERAGE				
22.7 Kg (50 lb)	NARROW JOINTS		WIDE JOINTS	
	m ²	ft ²	m ²	ft ²
	6.6-8.1	70-90	2.2-4.2	24-46

EUROSTONE BOND IS IDEAL FOR NARROW OR LARGE JOINTS UP TO A MAXIMUM OF 1.5 in. (3.8 CM.)
EUROSTONE BOND WORKS AT ITS OPTIMUM ON SURFACES WITH PROPER DRAINAGE SLOPES.



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IMPORTANT INSTALLATION NOTES:

- A Always refer to the latest **EUROSTONE BOND** Technical Data Sheet (TDS) at AllianceGator.com before installing **EUROSTONE BOND**.
- B Do not apply if the natural stone paver surfaces and joints are damp or wet. The damp or wet surfaces and joints will cause **EUROSTONE BOND** to prematurely activate and will lead to the polymers sticking on the stones paver surfaces and properly sliding into the joints and obtaining very densely packed joints, which is critical to the products performance. Do not use if rain is expected within 24 hours. Avoid excessive watering or flooding of natural stone paver surfaces.
- C For all natural stone paver surfaces, and particularly around in ground pools there must be a slope of 1/8" (3 mm) per linear foot away from the edge of the pool, or structures, to ensure optimal performance of the EUROSTONE BOND. For the pool coping units it is mandatory to use mortar in the joints. For the rest of the natural stone paver installation around the pool, you can use **EUROSTONE BOND**.
- D Do not sweep **EUROSTONE BOND** over asphalt.
- E The Eurostone sand level must be at least 1/8" (3 mm) below top of the natural stone paver's surface or 1/8" (3 mm) below the chamfer or erosion may occur.
- F The filled and cured polymeric sand joints should never be in direct contact with foot traffic or tires. The product must only be used as a recessed jointing material.

FOR USE ON AND REQUIRED SUB-SURFACE PREPARATION EUROSTONE BOND is recommended for a variety of uses, including pool sides, patios, foot paths, driveways, parking spaces, pavements etc.

WITH AN TRADITIONAL OR OVERLAY BASE SYSTEM: (See diagrams below). You must have a minimum 2% top surface slope for proper water runoff for both systems.



TRADITIONAL BASE SYSTEM

1 TRADITIONAL BASE SYSTEM

- A minimum 2% top surface slope for proper water runoff
- EUROSTONE BOND at least 1/8" (3 mm) below the paver stone surface.
- Minimum depth of joint 1-1/4" (32 mm)
- Maximum joint width 1-1/2" (38 mm)
- Layer of bedding sand maximum of 1" (25 mm)
- Layer of 6" (15 cm) thickness of 0-3/4" (0-20 mm) compacted crushed stone
- For light or heavy traffic applications the stone pavers must be completely interlocked



OVERLAY BASE SYSTEM

2 OVERLAY BASE SYSTEM

- A minimum 2% top surface slope for proper water runoff
- EUROSTONE BOND at least 1/8" (3 mm) below the paver stone surface.
- Minimum depth of joint 1-1/4" (32 mm)
- Maximum joint width 1-1/2" (38 mm)
- Layer of Permeable mortar bed base
- Layer of 6" (15 cm) thickness of 0-3/4" (0-20 mm) compacted crushed stone
- For light or heavy traffic applications the stone pavers must be completely interlocked



OVERLAY BASE SYSTEM

3 OVERLAY BASE SYSTEM

- A minimum 2% top surface slope for proper water runoff
- EUROSTONE BOND at least 1/8" (3 mm) below the paver stone surface.
- Minimum depth of joint 1-1/4" (32 mm)
- Maximum joint width 1-1/2" (38 mm)
- Layer of bedding sand maximum of 1" (25 mm)
- Layer of 4" (10 cm) thickness of concrete with 2" (5 cm) drainage hole every 10 feet (3 m) filled with 5/16" (8 mm) clean stone and cover with a geotextile for water evacuation
- For light or heavy traffic applications the stone pavers must be completely interlocked



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INSTALLATION INSTRUCTIONS:

METHOD for applying **EUROSTONE BOND** for a TRADITIONAL BASE SYSTEM on a NEW STONE SURFACE:

1. Use a maximum of 1 inch (25 mm) of concrete sand as your bedding course to do the final levelling. Install natural stone pavers. Make sure the natural stone pavers are completely interlocked.
2. Make sure the sides and top surfaces of the natural stone pavers are dry before applying the **EUROSTONE BOND** polymeric sand. Sweep **EUROSTONE BOND** in between the stone joints.
3. Compact the sand between the joint with the help of a vibrating plate and a hand tamper in restricted area. Sweep off all excess **EUROSTONE BOND** that is on the natural stone pavers surface. Insure that **EUROSTONE BOND** lies at least 1/8 in. (3 mm) below the top of the natural stone pavers or erosion may occur. The filled and cured polymeric sand joints should never be in direct contact with foot traffic or tires. Repeat twice the sweeping and compacting of the joint to ensure a good consolidation of the joint.
4. Using a leaf blower, remove any **EUROSTONE BOND** residue from the natural stone pavers surfaces. Depending on the physical layout, it may be more appropriate to remove residue by using a vacuum unit.
5. Use a water gun connected to a hose to direct a shower (water gun setting: "shower" or equivalent) 4 feet high (1.2 m) so that it lands on a total area of 75 sq. ft. (7 sq. m.) of natural stone pavers for 10 to 15 seconds. Wait 3 to 4 minutes (no longer), then repeat this step twice, to remove residues from **EUROSTONE BOND**. However, stop watering if you notice water retention on the joints of natural stone pavers.
6. Repeat the directions of step 5 for all other paved areas that have not been showered with water. The water used in steps 5 & 6 will activate a bonding action as well as condense **EUROSTONE BOND** in the joints. It is important to water the **EUROSTONE BOND** a total of 3 times. Too little water will not properly activate the **EUROSTONE BOND** and will reduce the final performance.

IMPORTANT

If steps 5 & 6 are not done properly, a white haze may appear on natural stone pavers surface after installation. This is due to excess **EUROSTONE BOND** residue left on natural stone pavers surfaces. This haze will dissipate over time. It can also be removed by using GATOR CLEAN efflorescence cleaner.

METHOD for applying **EUROSTONE BOND** on an EXISTING NATURAL STONE PAVERS SURFACE

1. Remove existing jointing material. Be careful not to disturb the bedding material under the natural stone pavers. Natural stone pavers must be completely dry before installing a minimum of 1 1/4" (32 mm) deep into the joints. Insure that **EUROSTONE BOND** lies at least 1/8 in. (3 mm) below the top of the natural stone pavers or erosion may occur. The filled and cured polymeric sand joints should never be in direct contact with foot traffic or tires.
2. Follow step 2 to step 6 of NEW STONE JOB instructions (above).



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INSTALLATION INSTRUCTIONS:

METHOD for applying **EUROSTONE BOND** for an OVERLAY BASE SYSTEM for a NEW NATURAL STONE PAVERS SURFACE:

1. Make sure the natural stone pavers are completely fixed in permeable mortar sand and cannot move.
2. Make sure the sides and top surfaces of the natural stone pavers are dry before applying the **EUROSTONE BOND** polymeric sand. Sweep **EUROSTONE BOND** in between the natural stone pavers joints.
3. Compact the sand between the joint with the help of a vibrating plate and a hand tamper in restricted area. Sweep off all excess **EUROSTONE BOND** that is on the natural stone pavers surface. Insure that **EUROSTONE BOND** lies at least 1/8 in. (3 mm) below the top of the natural stone pavers or erosion may occur. The filled and cured polymeric sand joints should never be in direct contact with foot traffic or tires. Repeat twice the sweeping and compacting of the joint to ensure a good consolidation of the joint.
4. Using a leaf blower, remove any **EUROSTONE BOND** residue from the natural stone pavers surfaces. Depending on the physical layout, it may be more appropriate to remove residue by using a vacuum unit.
5. Use a water gun connected to a hose to direct a shower (water gun setting: "shower" or equivalent) 4 feet (1.2 m) high so that it lands on a total area of 75 sq. ft. (7 sq. m.) of natural stone pavers for 10 to 15 seconds. Wait 3 to 4 minutes (no longer), then repeat this step twice, to remove residues from **EUROSTONE BOND**. However, stop watering if you notice water retention on the joints of natural stone pavers.
6. Repeat the directions of step 5 for all other paved areas that have not been showered with water. The water used in steps 5 & 6 will activate a bonding action as well as condense **EUROSTONE BOND** in the joints. It is important to water the **EUROSTONE BOND** a total of 3 times. Too little water will not properly activate the **EUROSTONE BOND** and will reduce the final performance.

IMPORTANT

If steps 5 & 6 are not done properly, a white haze may appear on natural stone pavers surface after installation. This is due to excess **EUROSTONE BOND** residue left on natural stone pavers surfaces. This haze will dissipate over time. It can also be removed by using GATOR CLEAN efflorescence cleaner.

Packaging:	Products	Size	Units per Pallet
	EUROSTONE BOND - Beige	22.7 kg (50 lbs)	56
	EUROSTONE BOND - Slate Grey	22.7 kg (50 lbs)	56
	EUROSTONE BOND - Ivory	22.7 kg (50 lbs)	56
	EUROSTONE BOND - Black Diamond	22.7 kg (50 lbs)	56
	- Plastic bags		
	- Intact pallets can be stored outside		

THIS CROSS-SECTION REPRESENTS THE HEIGHT OF POLYMERIC SAND FOUND IN THE JOINTS



Maximum joint width 1-1/2" (38 mm)





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TYPICAL PROPERTIES							
Test	European Method	North American Method	Cure	Units European (American) method	Typical Value*		
					minimum	maximum	
Sand Gradation	DIN EN 13139	ASTM C-144	N/A	N/A	Compliant	Compliant	
Penetration resistance	ISO 1920-14	ASTM C-403	7 days	N/mm ² (PSI)	4,4 (640)	6,5 (950)	
			28 days		39 (5660)	52 (7550)	
Water Absorption	BS EN 12808-5	ASTM D-1403	28 days	g (g/100cm ²)			
					30 minutes	0,24 (1,1)	0,17 (1,5)
					4 hours	1,5 (1,2)	0,20 (9,6)
Erosion resistance	ISO 19392-3	ASTM D-7538	60 minutes	erosion %	5	20	
Flexural strenght	BS EN 13892-2	ASTM C-348	7 days	N/mm ² (PSI)	0,5 (70)	1,1 (160)	
			28 days		2,8 (410)	3,9 (570)	
Compressive strenght	BS EN 13892-2	ASTM C-109	7 days	N/mm ² (PSI)	1,4 (210)	2,2 (320)	
			28 days		10 (1480)	14 (2010)	

* Will vary depending on the color of the sand

LIMITED WARRANTY:
15-YEAR LIMITED WARRANTY

Please note that this limited warranty applies when the product is used for residential purposes exclusively (home owners or contractors using the product for single or multi-unit dwellings that are exclusively for residential use). The manufacturer cannot guarantee results as it has no control over surface and sub-surface preparation and product application. (Proper installation of natural stone pavers to ensure long-term stability of work, including granular foundation of certified crushed stone of 0-3/4 inch (0-20 mm) bedding layer and appropriate installation of borders in accordance with above specified method for applying product). However, for a period of 15 years from purchase, the manufacturer agrees to refund the purchase price if the product is proven to be defective and on the condition that it was installed pursuant to the method of application of surface and sub-surface preparation described above. Proof of purchase is required for any claim.

EXCLUSION OF RESPONSIBILITY

THE PARTIES AGREE THAT REFUND OF THE PURCHASE PRICE AS STATED IS THE ONLY OBLIGATION OF THE MANUFACTURER. IN ALL EVENTS, THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES OR COSTS WHATSOEVER, (INCLUDING REMOVAL OR REINSTALLATION OF SAND OR NATURAL STONE PAVERS) DIRECT OR CONSEQUENTIAL. TO THE EXTENT PERMITTED BY LAW, THE MANUFACTURER EXCLUDES ANY IMPLIED WARRANTY OF QUALITY, MERCHANTABILITY OR FITNESS FOR PURPOSE.

ALLIANCE DESIGNER PRODUCTS INC. excludes any responsibility for the presence of moss, mold, mildew, or similar factors that may occur on the product after its installation. ALLIANCE DESIGNER PRODUCTS INC. excludes any responsibility for use of EUROSTONE BOND with Clay Pavers or any installation not installed to manufacturer's specifications and ICPI Tech Spec #2.