



**EUROSTONE BOND**  
**FOR NATURAL STONE PAVER JOINTS**  
TDS Revision Date (dd/mm/yyyy): 08/02/2022

## TECHNICAL DATA SHEET



- Update:** February 8, 2022  
Make sure you have an updated data sheet on hand.
- Description:** **EUROSTONE BOND** is the first polymeric sand, that meets DIN EN 13139 gradation, specifically designed for natural stone pavers. It can be used in an application for drainage 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. It sets above the freezing temperature 0°C.
- Features:**
- Can be used for stone joints up to a maximum of 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 0°C.
  - **EUROSTONE BOND** can be applied in **drainage base systems**, sets within 1 hour after water activation at above 0°C (No rain should occur within 1 hour 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 3 mm per 30 cm away from the edge of the pool, or structures, to ensure optimal performance of the **EUROSTONE BOND**.
  - The pool coping units, it is mandatory to use mortar in the joints. For 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 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.



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### Coverage:



Access our online sand calculator

Quantity required depends on the shape and size of the natural stone pavers as well as the width of the joints. For Black Sand consider a 10% decrease in coverage.

EUROSTONE BOND COVERAGE		
25 Kg	NARROW JOINTS	WIDE JOINTS
	m <sup>2</sup>	m <sup>2</sup>
	6.6-8.1	2.2-4.2

**EUROSTONE BOND** IS IDEAL FOR NARROW OR LARGE JOINTS UP TO A MAXIMUM OF 3.8 CM.

**EUROSTONE BOND** WORKS AT ITS OPTIMUM ON SURFACES WITH PROPER DRAINAGE SLOPES.

**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.



### DRAINAGE BASE SYSTEM

- A minimum 2% top surface slope for proper water runoff
- **EUROSTONE BOND** at least 3 mm below the paver stone surface.
- Minimum depth of joint 38 mm
- Maximum joint width 38 mm
- Layer of bedding sand maximum of 2.5 cm
- Layer of 15 cm thickness of 0-20 mm compacted crushed stone
- For light or heavy traffic applications the stone pavers must be completely interlocked

### DRAINAGE BASE SYSTEM

### INSTALLATION INSTRUCTIONS:

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

1. The installation of natural stone pavers will consist of interlocked stones, a 25mm bedding layer of sand and a draining foundation built with a minimum 15 cm of compacted stone 0-20 mm.
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 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) 1.2 meters high so that it lands on a total area of 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.



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**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 an 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 3.8 cm deep into the joints. Insure that **EUROSTONE BOND** lies at least 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).

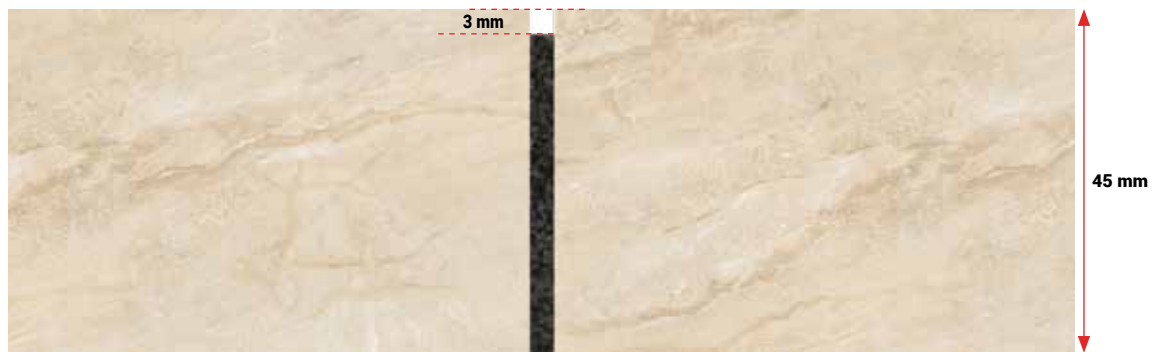
**IMPORTANT**

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 an efflorescence cleaner.

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



Maximum joint width 3.8 cm



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	<b>Compliant</b>	<b>Compliant</b>
Penetration resistance	ISO 1920-14	ASTM C-403	7 days	N/mm <sup>2</sup> (PSI)	<b>4,4 (640)</b>	<b>6,5 (950)</b>
			28 days		<b>39 (5660)</b>	<b>52 (7550)</b>
Water Absorption	BS EN 12808-5	ASTM D-1403	28 days	g (g/100cm <sup>2</sup> )	<b>0.17 (1.1)</b>	<b>0.24 (1.5)</b>
					30 minutes	<b>0.20 (1.2)</b>
			4 hours			
Erosion resistance	ISO 19392-3	ASTM D-7538	60 minutes	erosion %	<b>5</b>	<b>20</b>
Flexural strenght	BS EN 13892-2	ASTM C-348	7 days	N/mm <sup>2</sup> (PSI)	<b>0,5 (70)</b>	<b>1,1 (160)</b>
			28 days		<b>2,8 (410)</b>	<b>3,9 (570)</b>
Compressive strenght	BS EN 13892-2	ASTM C-109	7 days	N/mm <sup>2</sup> (PSI)	<b>1,4 (210)</b>	<b>2,2 (320)</b>
			28 days		<b>10 (1480)</b>	<b>14 (2010)</b>

\* Will vary depending on the color of the sand



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Packaging:	Products	Size	Units per Pallet
	<b>EUROSTONE BOND</b> - Beige	25 kg	56
	<b>EUROSTONE BOND</b> - Slate Grey	25 kg	56
	<b>EUROSTONE BOND</b> - Ivory	25 kg	56
	<b>EUROSTONE BOND</b> - Black	25 kg	56
	- Plastic bags		
	- Intact pallets can be stored outside		

**LIMITED WARRANTY**

The manufacturer cannot guarantee results as it has no control over surface and sub-surface preparation and product application. If this product is proven to be defective, on the condition that it was installed pursuant to the method of application and surface and sub-surface preparation described above, the sole obligation of the manufacturer is to refund the purchase price. Proof of purchase is required for any claim. The manufacturer shall not be liable for any other damages whatsoever, direct or consequential. To the extent permitted by law, the manufacturer excludes any implied warranty of quality, merchantability or fitness for purpose. The manufacturer shall not be liable for any other damages or costs whatsoever, including removal or reinstallation of sand or natural stones.