

# TECHNICAL DATA SHEET

## THORAD POLYMERIC SAND



### PRODUCT DESCRIPTION

THORAD polymeric sand is a specially formulated high performance mix of graded sand and binding agents to fill paver joints. Its superior performance and durability is ideal for the installation of pavers or natural stone as well as replacing existing joints on sidewalks, patios, sloped driveways or walkways. THORAD will remain stable and flexible while maintaining its flexibility and durability in the most extreme weather conditions.

### USAGE

- Apply product dry, hardens after spraying with water
- Help prevents weed growth and ant hills
- Use horizontally or on sloped surfaces\*
- Suitable for commercial installations
- Withstands hot and cold weather
- Available in 5 colors : grey, black, beige, urban white and charcoal
- Maximum width of joints : 4" (10 cm)
- Minimum wetting depth : 1" (2,5 cm)
- Rapid setting and easy to install
- Rapid setting in warm and sunny weather

### INSTALLATION INSTRUCTIONS

Follow the manufacturer's instructions carefully. We recommend that THORAD polymeric sand is applied on a small test area prior to installation to ensure a successful result. Have the technical data sheet on hand prior to the start of the installation.

**STEP 1 :** Pour the THORAD polymeric sand on a completely dry surface.

**STEP 2 :** Using a push broom, spread the polymeric sand over the joints making sure to fill to the full depth of the paver, stone or slab, leaving a 1/8" reveal. Remove any polymeric sand from the surface of the pavers using a push broom and a leaf blower before proceeding to step 3. The manufacturers of some types of pavers recommend to use a vibrating plate machine equipped with a Teflon plate at step 3. Please verify the recommendations of your paver manufacturer before installation.

**STEP 3 :** Use a vibrating plate over the entire paver surface for joints less than 1/4". Repeat steps 1 to 3 if necessary to make sure the joints have been filled to at least 1/8" below the paver surface.

**STEP 4 :** To ensure that no sand sticks to the surface of the pavers, use a stiff bristled broom for the initial sweeping of the Evolution polymeric sand. Then use a soft bristle broom to sweep the excess sand off the surface. Finally, use a leaf blower to ensure the removal of any excess sand residue from the surface. These two cleaning steps are important before proceeding to step 5.

**STEP 5 WATERING/ACTIVATING :** Water 50 sq. ft (5 m<sup>2</sup>) sections at a time, ensuring your spray nozzle is set to the "shower" position. Always begin the one step watering process from the lowest part of the project. Using the shower head position, **generously shower the pavers one time, approximately up to 1 minute per 50 sq. ft (5 m<sup>2</sup>)** in a left and right motion, while ensuring no displacement of polymeric sand from the joints. It is recommended to check if the water has filtered down to at least 1 inch (2.5 cm) of the depth of the joints. To do this, simply use a screwdriver and lift up the sand, then pack-it back in to it's original position.

**STEP 6 DRYING/SETTING :** Eliminate any standing water from the paver surface using a leaf blower. At least 24 hours are required to allow the polymeric sand to cure and harden for optimal performance. Stay off the paved surface during that period. The curing and hardening process will take substantially longer in cold and damp temperatures. The longer the drying time allowed, in dry and hot conditions, the better and longer lasting the end result will be (especially with larger joints). Use this product at temperatures over 32° F (0° C). In case of unexpected rainfall during the drying period, we recommend temporarily covering the area with a tarp and removing it after rain stops.

In case of the possibility your project could be exposed to rainfall during the drying period, we recommend covering the area with a tarp.

### REMINDER

Install the product only in good weather conditions. "No rain in forecast for the next 24 hours". Caution, rain showers immediately after the installation could carry the polymeric sand back to the paver surface. Cover it up !

Make sure the pavers, slabs or stones are dry before you start spreading the sand to avoid sticking or staining. Furthermore, make sure that pavers are free of polymeric sand before spraying with water.

Have all the tools for the correct installation : Stiff bristled push broom, soft bristle push broom, leaf blower, vibrating plate, spray nozzle with shower setting.

\*Please note that the combination of a very steep slope and wide joints can reduce the ability for water penetration into the joints, due to surface water slippage. In this case, we recommend installing the product in a small test area before proceeding.

Before using sealers or cleaners, it is recommended to wait at least 30 days. Check with the paver manufacturer to determine if it is safe to use these products on your paver surface.

This product must be stored in a dry place.

Please visit our website to obtain the most recent updates about our product installation and utilisation. It is important to follow the manufacturer's recommended instructions carefully and have the most recent technical data sheet on hand, prior to the start of the installation.

[www.thoradsand.com](http://www.thoradsand.com)

### COVERAGE

A 50 lbs (22,7 kg) bag of THORAD polymeric sand can cover approximately between 18 and 127 square feet (1,7 and 11,8 m<sup>2</sup>) of pavers depending on the shape width of the joints and thickness of the pavers used.

### PACKAGING

22,7 kg (50 lb). per bag. 42 bags per pallet.

Width of joints		Yield per bag		Surface		
				64 ft <sup>2</sup>	100 ft <sup>2</sup>	400 ft <sup>2</sup>
mm	in	m <sup>2</sup>	ft <sup>2</sup>	6 m <sup>2</sup>	9 m <sup>2</sup>	36 m <sup>2</sup>
2	1/16"	9.4	126.7	1 bag	1 bag	4 bags
3	1/8"	6.3	64.5	1 bag	2 bags	6 bags
6	1/4"	3.3	33.4	2 bags	3 bags	12 bags
10	3/8"	2.0	23.0	3 bags	5 bags	18 bags
13	1/2"	1.6	17.8	4 bags	6 bags	23 bags

### LIMITED WARRANTY

The materials used in making this polymeric jointing sand are of the highest quality under strict production control. The manufacturer has no control over the installation or usage of the product and therefore cannot guarantee the final end result. The manufacturer warranty is limited to the replacement or reimbursement of defective products. Claims must be submitted to the manufacturer, 30 days from the date the problem was discovered with a roof of purchase.

**PERIOD OF WARRANTY: 15 years on pedestrian area.**

## **TECHNICAL DATA**

***Polymeric sand (50 lb. bag) 22,7 kg***

Physical aspect	Solid mixture
Colors	Beige, Grey, Black, White
Storage life	12 months in unopened original package in a dry and covered area
Health and Safety	Refer to the MSDS sheet

***Polymeric sand (after installation)***

Maximum proportion (approx.)	1.6 US gal. /50 lb. bag (22,7 kg)
Density	106 lb. /sq. ft. (1.6-1.8 kg per litre)
pH	12
Minimum installation temperature	32°F (0°C)

***Sand grading:***

Meets CSA A179-04 requirements

***Compression strength at 28 days***  
***Adhesion by tensil load at 28 days***

5.4 MPa (783 psi)  
0.7 MPa (100 psi)

***Packaging***  
***Coverage / yield***

50 lb. bag (22,7 kg)  
See instruction sheet

## **GRADING\***

Grading Requirements for Joint Sand					<b>THORAD</b>	
Sieve #	ASTM C 144			CSA A179	% Passing	
	Size mm	% Passing*	% Passing **	% Passing	Min	Max
4	4.75	100	100	100	100	100
8	2.36	95 to 100	95 to 100	90 to 100	100	100
16	1.18	70 to 100	<b>70</b> to 100	85 to 100	90	100
30	0.6	40 to 75	40 to 100	65 to 95	65	95
50	0.3	10 to 35	20 to 40	15 to 80	35	50
100	0.15	2 to 15	10 to 25	0 to 35	10	25
200	0.075	0 to 1	0 to 10	0 to 1	0	1

\*Natural sand; \*\* Manufactured sand

\*About sieve analysis: ICPI (Interlocking Concrete Paving Institute) have approved both ASTM C-144 and CSA 179 for jointing sand. Pointing out that "fine particles tend to fill the joints faster, making final compaction less time consuming". Sand particles of THORAD meet CSA 179 and are actually smaller than

**TECHNICAL INFORMATION**

Ask the technical information to:  
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Tel. 0039 0331 570076 <http://www.thoradsand.com>

For optimum results, watch our 5 minutes installation video on our website [www.thoradsand.com](http://www.thoradsand.com)