PRODUCT DATA SHEET

Evolution Polymeric Sand

High-performance polymeric sand

DESCRIPTION

Evolution Polymeric Sand is a high-performance polymeric sand made from high-quality screened sand and binding agents. When activated with water, it forms a strong, stable bond that resists erosion, weed growth, and insect infestation. Evolution Polymeric Sand is designed for filling joints 3 mm (1/8 in) to 100 mm (4 in) wide between interlocking pavers, slabs, natural stones, porcelain, and bricks.

USES

Evolution Polymeric Sand is suitable for residential and commercial applications, providing long-lasting joint stability for pedestrian and traffic areas such as patios, walk-ways, driveways, pool decks, and high-traffic roadways.

FEATURES

- No haze, low dust
- Washout resistant
- Hardens after water activation for durable joints
- Increased flexibility to better resist freeze-thaw cycles
- Permeable to water for proper drainage
- Resistant to ice melters, mineral salts and acid cleaners
- Resists erosion, weed growth, and insect infestation
- Can be used horizontally or on a slope

PRODUCT INFORMATION

Packaging	22.7 kg (50 lb) bag
Colour	White, Beige, Grey, Black and Charcoal
Shelf life	12 months in original, unopened bag
Storage conditions	Store in a dry, covered area protected from the elements. Keep bags sealed to prevent moisture exposure. Avoid contact with soil or debris.
Density	1,800 kg/m³ (106 lb/ft³)
Maximum grain size	Conforms to ASTM C144 and CSA 179
Compressive strength	5.4 MPa (783 psi) at 28 days
Yield	Narrow Joints: 5.6 - 8.4 m² (60 - 90 ft²) Wide Joints: 1.8 - 3.7 m² (20 - 40 ft²) **Note**: Yield will vary depending on the size of the joints and pavers used.
Ambient air temperature	Between 5 °C (41 °F) and 35 °C (95 °F)
Substrate temperature	Between 5 °C (41 °F) and 35 °C (95 °F)

Setting time	220 minutes **Note**: Longer drying times may be required when temperatures are below 21 °C (70 °F) for the first 24-72 hours after installation of Evolution Polymeric Sand.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS OF USE

The user is responsible for the proper use of the product.

- Install Evolution Polymeric Sand only in good weather. Do not proceed to installation if rain is expected within 24 hours or 48 hours for joints wider than 13 mm (½ in), as heavy rainfall can wash away or displace the polymeric sand. Cover the surface if necessary.
- Ambient and surface temperature must remain above 5 °C (41 °F) for a minimum of 48 hours after installation.
- On steep slopes or wide joints, surface water may reduce penetration. Install a small test area before full application.
- Wait at least 30 days before applying sealers or cleaners. Verify product compatibility with the paver manufacturer.
- For touch-ups or reinstallation, remove all existing sand to full joint depth or at least 38 mm (1.5 in) before re-sanding.
- Minimum joint thickness: 3 mm (1/8 in); maximum joint thickness: 100 mm (4 in).
- Protect joints from rain for at least 24 hours after application; for joints wider than 13 mm (½ in), protect for 48 hours.
- The entire paver joint must be filled with Evolution Polymeric Sand; do not partially fill joints with any other material.
- Do not overwater during application. Stop showering once the material can no longer accept water.
- Do not displace Evolution Polymeric Sand with water during showering. Avoid using a high-pressure water hose or one that generates large water droplets.
- Do not use in areas that are submerged or permanently wet. Joints may soften when saturated but will harden after drying.
- Do not use with pavers or stones installed directly over a concrete slab. A drainage base is required to prevent joints from remaining saturated.
- Moisture can cause premature gelling of the product. Plan for at least 24 hours without rain or 48 hours for joints wider than 13 mm (½ in). Ambient and surface temperature must remain above 5 °C (41 °F) for a minimum of 48 hours after installation.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Install pavers, stones, bricks, or slabs over a properly prepared surface. Use a suitable bedding mix for final leveling and provide an appropriate drainage base in accordance with ICPI Tech Spec #2.

APPLICATION

Test area:
Apply the Evolution Polymeric Sand first in a small test area of approximately 0.6 m x 0.6 m (2 ft x 2 ft) to verify proper performance and aesthetic results before full-scale application.

Spreading:
Ensure the surface is completely dry before starting. Spread the Evolution Polymeric Sand evenly over the paver, stone, or slab surface.

Joint Filling:
Sweep the Evolution Polymeric Sand into the joints using a stiff-bristled push broom, filling joints to full depth while leaving approximately 3 mm (1/8 in) below the paver chamfer. Repeat spreading and sweeping if necessary to ensure joints are completely filled. For steep slopes or wide joints, install a small test area first to verify proper filling and penetration.

Compacting:
Compact the joints using a plate compactor over the entire surface. For natural stones, use a roller compactor. If mechanical compaction is not possible, manually tamp joints using a rubber mallet. Ensure the sand is densely packed and level with the desired joint depth.
Compact installed pavers using a plate compactor for interlocking pavers, bricks, or slabs. Use a roller compactor for natural stone. For large or sensitive slabs (ex.: porcelain), compact manually using a rubber mallet.
Ensure all joints are completely free of excess bedding mix, laitance, or debris. Joints must be empty and clean before spreading the Evolution Polymeric Sand.

Cleaning:
Remove excess Evolution Polymeric Sand from the paver surface using a stiff-bristled broom. Follow with a soft-bristled broom, then a leaf blower to remove any remaining Evolution Polymeric Sand residue. This ensures no sand sticks to the surface and prevents white haze formation after watering.

Watering / Activation:
Water the Evolution Polymeric Sand in sections of approximately 5 m² (50 ft²) at a time, starting from the lowest point and moving upward. Use a garden hose or spray nozzle set to “shower.” Shower each section for about 1 minute, ensuring water penetrates at least 25 mm (1 in) into the joint. Avoid high-pressure jets or large water droplets that may displace sand. For joints wider than 13 mm (½ in), do not water more than 5 m² (50 ft²) at a time. Use a leaf blower to remove any excess surface water from pavers after watering.

Note: Water activates the bonding and condensation of the Evolution Polymeric Sand in the joints. Improper sweeping, compaction, or watering may leave a white haze on the paver surface. The haze will dissipate over time or can be removed using an appropriate concrete cleaner. Do not use a pressure washer, as it may displace hardened Evolution Polymeric Sand from the joints.

APPLICATION METHOD / TOOLS

- Hand tools: Stiff and soft bristled push brooms, manual tamper, rubber mallet, level
- Leaf blower
- Vibrating plate or roller compactor (depending on the type of paver or stone selected)
- Water hose with spray nozzle (with shower setting)
- Tarpaulin (in case of inclement weather)

CURING TREATMENT

Allow a minimum of 24 hours for the Evolution Polymeric Sand to cure and harden before opening the area to foot traffic. For vehicular traffic, allow at least 72 hours.

Note: Curing time will be longer in cold or damp conditions. Warmer, dry conditions improve curing and final durability, especially for wider joints. Protect the joints from rain for a minimum of 24 hours. Keep sprinkler systems off near the newly installed surface for at least 72 hours. In the event of unexpected rainfall during the curing period, temporarily cover the area with a tarp and remove it once rain stops.

CLEANING OF EQUIPMENT

Clean all tools and equipment after use with water.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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