

# Geopave 10<sup>®</sup> - Installation & Maintenance Guide



## 1. About the product

Geopave 10<sup>®</sup> is a natural self-binding surfacing material produced at the Little Ponton limestone quarry and graded to a 0/10 mm specification. When laid and compacted in accordance with these instructions, Geopave 10<sup>®</sup> provides an aesthetically pleasing natural surface suitable for:

- ✓ Footpaths and walkways
- ✓ Bridleways
- ✓ Canal towpaths
- ✓ Woodland paths
- ✓ Parks and garden walkways
- ✓ Golf course pedestrian pathways
- ✓ Lightly trafficked unsurfaced pavements

### Not suitable for:

- ✗ Vehicular traffic subject to high shear stress (e.g., turning circles)
- ✗ Channelised vehicle traffic
- ✗ Steep slopes
- ✗ Driveways for housing developments

Coverage rate: **8–10 m<sup>2</sup> per tonne** at **50 mm compacted thickness**.

Geopave 10<sup>®</sup> is **not free draining** and must be laid to match the camber/crossfall of the sub-base in conjunction with a site-specific drainage design.

## 2. Sub-Base Requirements

Geopave 10<sup>®</sup> must be installed on a well-compacted, quarry-sourced sub-base. Recycled aggregates can be used provided they are free draining and meet the specification.

### Acceptable options:

- Preferred: Type 3 sub-base (to provide additional drainage as required)
- Type 1 sub-base with appropriate drainage.

### Requirements:

- All Sub-bases must be sufficiently free draining
- Minimum thickness: 150 mm
- May be increased up to 300 mm depending on design and loading
- If thicker than 150 mm, install in two compacted layers
- Thickness should reflect expected footfall and subgrade condition
- Install with crossfall or camber
- Compact with a suitably weighted roller
- Do not install a membrane between the sub-base and Geopave 10<sup>®</sup>

## 3. Geopave 10<sup>®</sup> Layer Installation

- Spread to an initial loose depth of **75–85 mm**
- Ensure an even, smooth spread
- Compact using a roller (similar method to sub-base compaction)
- A mini paver may be used for tighter finish where required

### Compaction guidance:

- Use vibration where moisture content allows
- If material is too wet, first pass should be **without vibration**
- Compact until fully compacted
- Target finished compacted thickness: **~50 mm**

### Avoid:

- Over-compaction
- Surface tearing
- Excessive drying out during rolling
- Once uniform appearance is achieved, proceed to **wet rolling** with vibration off

## 4. Wet Rolling Procedure

- Apply water to the roller drum — **not directly to the surface**
- Maintain a thin film of water under the drum
- If material sticks, the drum is too dry
- Warm or dry conditions may require additional water
- Do not spray water onto Geopave 10<sup>®</sup> — this can wash out fines and weaken binding
- Surface marks may be removed using a **soft brush** at this stage

## 5. Curing & Opening to Use

- Minimum closure period: **48 hours**
- Recommended closure: **7–10 days** for best performance
- Actual time depends on weather conditions

### Do not install:

- Frozen material
- Onto frozen ground
- Into standing water

## 6. Drainage & Edging

Geopave 10® can be used with:

- Timber edging
- Precast edging
- Metal grid systems
- Other standard edging types

Edging should **not stand proud** of the finished surface unless:

- Additional drainage measures are designed in
- French drains or drainage grids are incorporated

## 7. Surface Performance & General Maintenance

When correctly laid, Geopave 10® provides a smooth, uniform finish.

Natural weathering and use will gradually change its appearance.

Regular maintenance is essential to preserve performance and aesthetics.

## 8. Winter Care

Remove leaves and debris using:

- Blower
- Vacuum
- Soft broom

Avoid hard brushing — this may scarify and loosen the surface.

## 9. Weed Control

Weeds may establish, particularly in lightly trafficked areas.

Treatment:

- Apply water-based weed killer
- Do not pull weeds out — this disturbs the surface
- After treatment, remove dead growth with a soft brush

## 10. Minor Repairs

### Small Holes

- Overfill with loose Geopave 10® by approx. **50%**
- Example: 20 mm hole → fill to stand 10 mm proud
- Re-compact following installation method

### Potholes

Potholes usually indicate drainage problems.

Repair method:

- Cut out affected area to sub-base
- Check sub-base condition
- If sound, refill with Geopave 10® to 75 mm depth
- Re-compact using roller or vibrating plate

## 11. Aesthetic Restoration (“Absolute Aesthetics”)

To refresh appearance:

- Lightly loosen surface with rake or similar tool
- Take care not to disturb sub-base

If surface is too consolidated:

- Remove loose material
- Install new Geopave 10® layer per installation guidance



## 12. Design Stage Guidance

It is essential at the design stage of the project to consider the site location, contours, and any drainage systems that may need to be incorporated (such as French drains or grids) to achieve a low environmental impact and a visually pleasing, cost-effective solution.

**A well-considered design reduces environmental impact while improving durability, enhancing visual appeal, and delivering cost-effective long-term performance.**

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