SOLMAX

INSTALLATION GUIDELINE

OSMORIA Indigreen Permeable parking lot

Removing hydrocarbons and PAHs from stormwater

Contents

1. INTRODUCTION

OSMORIA™ Indigreen® aquatextile is a high-performance material designed for effective and sustainable management of stormwater runoff.

When installed beneath permeable parking lots, OSMORIA Indigreen aquatextile filters hydrocarbons and PAHs from stormwater as it percolates through the surface. This helps protect soil, surface water, and groundwater from pollution, while also preserving environmental biodiversity.

OSMORIA Indigreen aquatextile is lightweight, durable, and engineered to withstand the challenges of public works projects. While easy to install, it is important to follow these guidelines to ensure optimal performance and longevity:

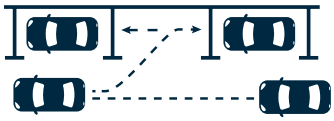
- Follow the designer's specifications regarding materials in contact with the aquatextile.
- Adhere to the installation instructions provided in this guide.

2. BEFORE INSTALLATION

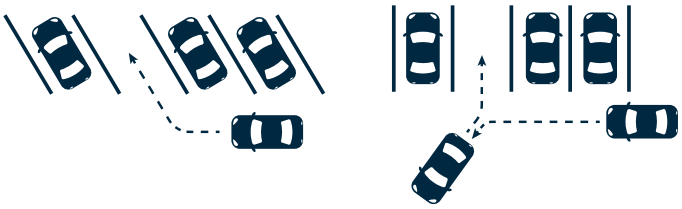
1. Layout plan

Before installation, it is advisable to create a layout plan that optimizes the roll sizes to fit the parking area. The layout should account for overlap between aquatextile strips and the anchoring at the edges of the treated area.

OSMORIA Indigreen rolls are available in the following sizes:



- 2.8 m x 100 m : Ideal for covering multiple parking spaces aligned along a road.



- 5.6 m x 100 m : Suitable for perpendicular (90°) or angled parking spaces.

A 30 cm overlap should be maintained between strips on horizontal surfaces. Depending on the thickness of the permeable structure, the aquatextile should also be installed 10-20 cm up the sides of the parking area (including any permeable access roads). This prevents polluted water from laterally percolating at the edges of the treated area.

After installation, the OSMORIA Indigree aquatextile should be immediately covered with the permeable structure.

2. Storage of rolls before installation

Store OSMORIA Indigreen rolls on a flat, clean, and horizontal surface. Make sure that:

- No objects or sharp stones are on the ground.
- The packaging remains intact to protect the aquatextile from weather and UV rays.

3. Cutting the strips

For areas with complex shapes, it is recommended to cut strips in a designated area outside the installation site. The strips should be labeled according to the layout plan.

3. INSTALLATION

1. Unrolling the aquatextile

Unroll the aquatextile strips horizontally on the prepared subbase. Ensure that the surface is free of objects or sharp stones, and follow the layout plan with proper overlaps.

The green side of the aquatextile should face upwards, with the grey side in contact with the subbase or drainage layer. Water will always flow from the green side to the grey side.

If there is a delay before covering the aquatextile, use temporary ballast (such as sandbags) to secure it.

Figure 1: Subgrade preparation

Figure 2: Measuring and cutting strips, if necessary

Figure 3: Installing the aquatextile with a 30 cm overlap on horizontal surfaces

2. Backfilling

Carefully backfill the aquatextile with the specified granular material. Do not allow machinery to drive directly over the aquatextile.

Figure 4: Covering the aquatextile with the appropriate material for the permeable surface

Figure 5: Grading the surface and installing the permeable coating (e.g., honeycomb slabs)

4. SCHEMATIC DIAGRAMS

Diagram 1: Parking lot with permeable mineral coating (permeable soil)

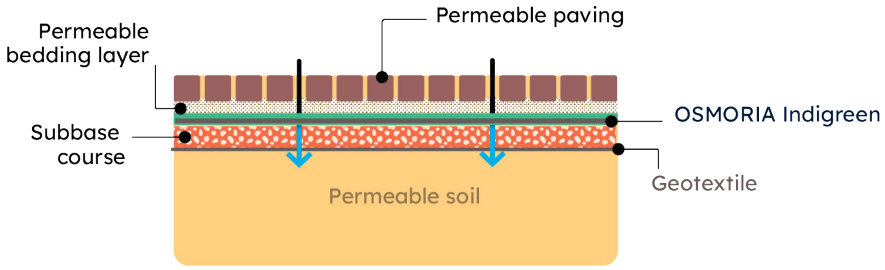


Diagram 2: Parking lot with permeable mineral coating and drainage system (low permeable soil)

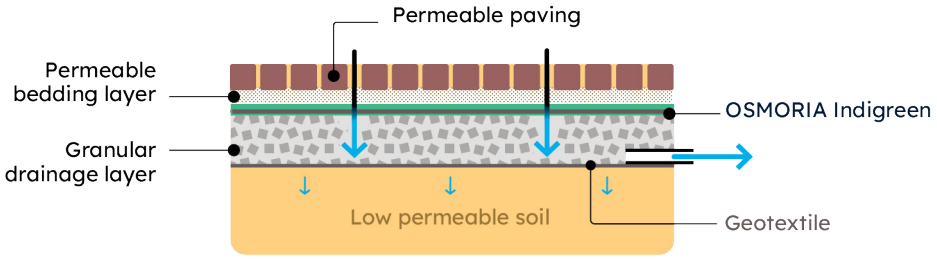


Diagram 3: Parking lot with permeable green coating (permeable soil)

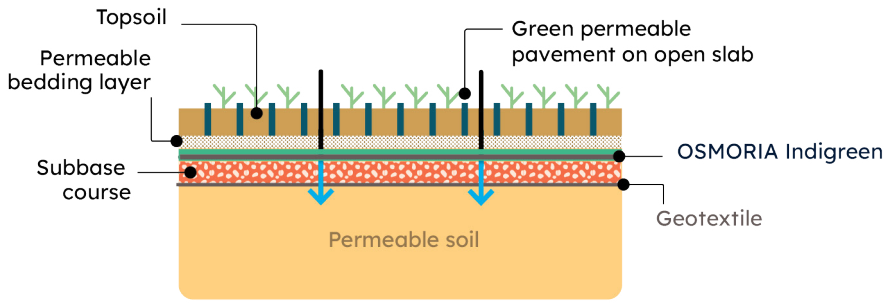
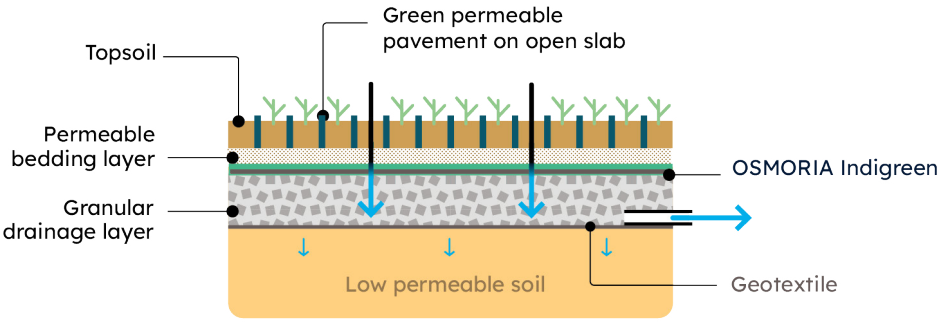


Diagram 4: Parking lot with permeable green coating and drainage system (low permeable soil)



About Solmax

Solmax is a world leader in sustainable construction solutions, for civil and environmental infrastructure. Its pioneering products separate, contain, filter, drain and reinforce essential applications in a more sustainable way – making the world a better place. The company was founded in 1981, and has grown through the acquisition of GSE, TenCate Geosynthetics, TenCate AquaVia and PROPEX. It is now the largest geosynthetics company in the world, empowered by more than 2,000 talented people. Solmax is headquartered in the province of Quebec, Canada, with subsidiaries and operations across the globe.

Uncompromised quality

Our products are manufactured to strict international quality standards. All our products are tested and verified at our dedicated and comprehensive laboratories which maintain numerous accreditations. We offer our partners a wide scope of testing according to published standards to ensure products delivered to sites meet specified quality requirements.

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