



# Permeable Resin- Bound Gravel Flooring

by Resin-pro.co.uk



## What is permeable flooring?

Permeable flooring is a surface that allows rainwater to drain through naturally, preventing standing water and reducing the risk of flooding. It is made from natural gravel bound with resin, ensuring efficient water dispersion.

Thanks to the use of aggregates available in a wide range of colours, shapes and sizes, this system allows for countless bespoke design solutions suitable for any project.

[Watch the introductory video](#)

## What are the advantages?

- Fully customisable appearance
- Prevents water pooling and the growth of mould or weeds
- Cost-effective and suitable for DIY installation
- Ready within one day
- No routine maintenance required
- High mechanical strength, impact resistance and wear resistance

## Where can it be used?

This flooring solution is ideal for car parks, walkways, gardens, courtyards, pedestrian and cycle paths, terraces and public squares. It is also suitable for use inside biopools and decorative fountains.

## Which substrates are suitable?

The system can be installed over **existing surfaces such as tiles or concrete** (recommended minimum thickness: 1 cm), as well as on **compacted soil for decorative applications** (for example, garden paths).

It is compatible with **elastic waterproofing membranes** on terraces and balconies and adapts easily to **irregular substrates**, filling minor gaps and imperfections.

It is also suitable for **vertical applications**, including walls and staircases.



## Is it suitable for vehicle traffic or high-traffic areas?

Yes. The surface is driveable from the following day.  
A layer thickness of **2 cm** is sufficient for vehicular use.



## What are the costs?

The price of our complete kits (primer and gravel) depends on the total surface area, the condition of the substrate\* and the type of binder selected.

Indicative costs are:

- **£42.85 per m<sup>2</sup>** for pedestrian areas \*\*
- **£52.85 per m<sup>2</sup>** for driveable surfaces \*\*

\* Tiles, concrete and stone are ideal substrates. Even if partially damaged or incomplete, the permeable system acts as a consolidating filler thanks to its liquid binder.

\*\* Prices exclude VAT and delivery

## How long does installation take?

Installation is quick and straightforward.

The surface becomes **walkable after 24 hours** and **driveable after 36–48 hours**, depending on ambient temperature.

A person with no prior experience can apply approximately **5 m<sup>2</sup> per hour**, while an experienced installer can reach up to **10 m<sup>2</sup> per hour**.

## What materials are used?

Only two components are required:

- the **binder** (which also functions as a primer)
- the **gravel**

Two types of binder are available:

- **Epoxy binder** – a two-component resin designed for coloured or dark aggregates (such as Bardiglio Grey, Verona Red or Mori Yellow).
- **Polyurethane binder** – a universal two-component resin, ideal for substrates subject to significant thermal movement or waterproofing membranes.

## Which colours are available?

Click [HERE](#) to view our full range of gravel colours available for immediate delivery.

For specific requirements, we can provide a tailored quotation, or you may supply your own aggregates.

## What maintenance is required?

Permeable resin-bound gravel flooring is extremely durable and **does not require specific maintenance**.

## How long does permeable flooring last?

Lifespan depends on the substrate and traffic levels, but under normal conditions the surface can last **for several decades**.

## Is it suitable for all climates?

Yes. The system performs reliably in temperatures ranging from **-20°C to +60°C**.

Because the surface is permeable, ice formation does not cause damage.

For particularly cold climates, the use of a **polyurethane binder** is recommended.

## Can I install it myself?

Yes. Installation is straightforward: clean and dry the surface, mix the resin with the gravel and apply.

All products are pre-measured according to recommended application ratios.

Click [HERE](#) or watch the video guide.

## Is an installation service available?

Installation can be carried out by a trusted builder.

We provide **free technical support directly to the professional you choose**, ensuring optimal results and peace of mind.

Alternatively, installation can be carried out by **ResinPro-certified professionals** – request the list of approved applicators.



## What conditions are required for application?

The resin cures at temperatures between **10°C and 45°C**.

At lower temperatures, curing times increase. For example, at 10°C the surface becomes walkable after 36 hours and driveable after 72 hours.

Installation should not be carried out in adverse weather conditions. The substrate must be completely dry, and **no rain should occur for at least 24 hours after application**.

## What tools are required?

- A bucket or small concrete mixer
- Screed bar
- Trowel
- American spatula
- Small scale for accurate resin dosing



## What should I pay attention to during application?

Two key points:

- Accurate resin dosage, following the instructions supplied in the kit
- Proper substrate preparation: surfaces must be stable, clean and dry. Moisture or contaminants such as dirt, grease, oil or residues from previous treatments may compromise adhesion.

## Can I use gravel or stones I already have?

Yes, provided they are **washed and fully dried**.

The aggregates must have a uniform moisture level to ensure consistent colour; variations may result in uneven shading once applied.

## Can it be applied on compacted soil?

Yes, for decorative finishes or when combined with load-bearing drainage grids.

This ensures excellent resistance for both pedestrian and vehicle traffic.

## What do I receive after placing an order?

You will receive **all materials ready for use**, delivered on a pallet or crate.

## I'm not sure how to apply the flooring – what can I do?

No problem. We offer **remote technical assistance and video guidance** to support you throughout the installation process.

Our technical team is available to guide you step by step.

You can start by watching the introductory video by clicking [HERE](#).

## Are there any time limits for application?

No. You may stop and resume work even after several weeks.

It is important that the gravel remains dry and has consistently low moisture levels.

## Are expansion joints required? How can I create borders or decorative features?

Expansion joints are recommended every **20–25 m<sup>2</sup>** and at any **change of substrate** (for example, from old paving to concrete) to accommodate thermal movement.

Borders, markings and decorative elements can be created using **aluminium, plastic or stone profiles**, fixed to the substrate before application. Once cured, the surface forms a single seamless structure.



## Which decorative techniques can be used?

Different gravel colours can be combined and separated with aluminium profiles to create customised patterns, designs or logos.

## Indicative application thickness

- **≥ 10 mm** for pedestrian areas
- **≥ 20 mm** for driveable surfaces (load up to 7,500 kg)

Thickness may vary depending on aggregate size and type. The values above refer to aggregates with a maximum grain size of **5–8 mm**.

## Can surface strength be increased?

Yes. To enhance surface resistance, a **single coat of binder** can be applied with a short-pile roller once the surface is walkable.

## Indicative material consumption

- **600 g of epoxy binder** per 25 kg bag of 4–8 mm gravel
- **500 g of polyurethane binder** per 25 kg bag of 4–8 mm gravel
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## Place an order and contact us

Complete permeable flooring kits delivered to your home within **2 working days – buy now!** For further information, speak directly with one of our technical experts:



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