


nidaplast[®]
HONEYCOMBS



For gravel surfaces that last

nidagravel[®]



The perfect solution for stabilising gravel



Nidagravel: The ultimate gravel finish

We all know gravel can add an elegant touch to any garden, driveway or business premises, but all too often the disadvantages associated with gravel prevent it from becoming the product of choice.

The solution is Nidagravel:

- No sinking
- No rutting
- No spreading
- Free draining
- Wheelchair friendly
- Low maintenance

In fact, everything you need to take advantage of the beauty and texture of natural aggregates.



Nidagravel: The product

It consists of polypropylene trays formed from hexagonal cells, which are then laid on compacted ground and filled with gravel. The trays are backed with a fibreglass membrane. This inhibits weed growth and helps prevent gravel loss, whilst remaining free draining. The gravel compacts into the tray sections to form a solid surface.



Nidagravel: The benefits

- A durable, firm and level surface
- Easy passage for foot traffic, vehicles, pushchairs, bicycles and wheel chairs.
- Restricted gravel migration - low maintenance finish.
- Completely porous thereby reducing the need for complicated and expensive drainage solutions.
- Quick and easy to install, no specialist tools or training needed.

Nidagravel: Uses and applications

- Ideal for business and domestic premises
- Driveways
- Parks
- Patios
- Paths
- Emergency access areas
- Exhibitions
- Conservation areas
- Car Parks (low traffic)



Nidagravel: Cost effective life time investment

- Nidagravel trays are virtually maintenance free.
- If the honeycombs cells become exposed simply top up with gravel.

Installation Guide

Nidagravel is very easy to install, follow this simple guide for a perfect finish.

Sub-base:

Nidagravel is quick and easy to install. Firstly you need to lay a foundation. For vehicular access, we recommend a sub base of compacted M.O.T. or hardcore (min 100 mm in depth) with a fine layer (25 - 50 mm) of sharp sand to even out any undulations. Paths and pedestrian areas need only a layer of compacted sharp sand.

Cutting:

Nidagravel can be cut easily with a power or hand saw to conform to any shape required and numerous trays can be laid in a matter of minutes and subsequently filled with gravel.

Edging:

The area needs to be edged to retain the trays and gravel, using:

- Existing buildings and walls
- Kerbing
- Setts
- Timber
- Metal edging systems

The edging must be at least 60 mm proud of the top of the sand layer which forms the sub base.

The trays are filled with gravel (40 mm tray thickness plus 10 - 20 mm overfill to conceal the trays).

Notes:

As a guide using 10 mm diameter gravel, 1 ton should cover approximately 10 to 12 square metres.

The thickness of the sub base is dependent on local ground conditions and the envisaged load, and should be tailored accordingly.

The trays are placed on the prepared foundation/ sub base. Each tray has projecting flaps of membrane. Subsequent trays should be laid on these overlaps to inhibit weed growth between trays,



The retaining edging keeps the trays in place. Nidagravel can be cut easily with a power or hand saw to conform to any shape required.



The vehicles/wheelbarrows used to deliver the gravel can be driven over the filled trays. The most effective way of filling them is from the front. This helps to compact the gravel already laid with each subsequent trip.



The gravel is then simply spread out across the honeycombs with an overfill of approximately 10 to 20 mm to conceal the trays from sight.



The finished project.



Nidagravel: Typical specification

1:1 Sub-base

Nidagravel should be placed on a suitably compacted sub-base (see notes), with weed suppressant overlap laid underneath each following sheet.

1:2 Placing

Panels should be placed on a flat bed of blinding or sand, graded to suit the installation.

1:3 Filling

Gravel fill at a rate of 75 - 85 kg per sq. metre, should be placed into the honeycomb structure. The honeycomb structure should be overfilled to a depth of 10 - 20 mm above the top surface of the panels. Filling should take place from the access point inwards and mechanical or pedestrian traffic should only occur over filled panels. Nidagravel is suitable for use with all sizes of gravel up to 16 mm diameter.

1:4 Compacting

If required final consolidation can be aided by light compaction with a compaction plate.

Notes:

Sub-base substructure is dependant on the use to which the final surface is to experience. This can vary from compacted earth for very light foot access paths to 150 mm of type one sub base material, where regular vehicle traffic is anticipated. In general the same sub-base as would be specified for modular concrete paving, is applicable to Nidagravel.

Maintenance:

Nidagravel requires virtually no maintenance. If the honeycombs cells become exposed simply top up with gravel.

Visit

www.nidagravel.co.uk

for more information including:

- Image gallery
- Technical Information
- News
- Distributor details

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Technical specifications

Type	Nidagravel
Material	polypropylene (recyclable)
Dimensions of the plates	2400 x 1200 x 40 mm, 1200 x 1200 x 40 mm
Honeycomb diameter	37 mm
Weight	1,8 kg/m ²
Compression strength at 20°C	80 T/m ² filled 40 T/m ² empty
Drainage capacity	Nidagravel is completely permeable.
Biological resistance	very good
Chemical resistance	Nidagravel (polypropylene) is resistant to almost all chemicals



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