


# *ULTI*FLOW

The ultimate range of drainage aggregates





**Tarmac ULTIFLOW is a range of versatile, high performance aggregates with excellent drainage characteristics.**

Traditional paved surfaces are designed to shed water. Unfortunately this means that local drains can quickly become overwhelmed after heavy rainfall.

With the apparent rise in extreme weather over recent years, flood management has become a high priority. Tarmac has responded with a range of specialist aggregates designed to work with various

pavements types, to improve water management and reduce the risk of flooding.

Our investment in process technology ensures a high level of control over aggregate production and grading, for a consistent product that delivers predictable water holding and flow characteristics and meets the highest industry standards.



**ULTIMATE  
SOLUTIONS**



# ULTIMATE RESULTS

## Environmental performance

ULTIFLOW avoids localised flooding by acting as a reservoir layer in association with the selected upper layer product. Capturing and storing rain water and releasing it slowly into the ground at an appropriate rate to avoid excessive demand on local drainage systems, whilst also providing a degree of filtration service to improve water quality.

## Ultimate compliance

Meets relevant environmental and quality standards.

## Consistent quality

Our network of UK quarries and specialist production facilities give us exceptional control over production and grading of aggregate, ensuring consistent quality and performance.

## Ultimate solutions

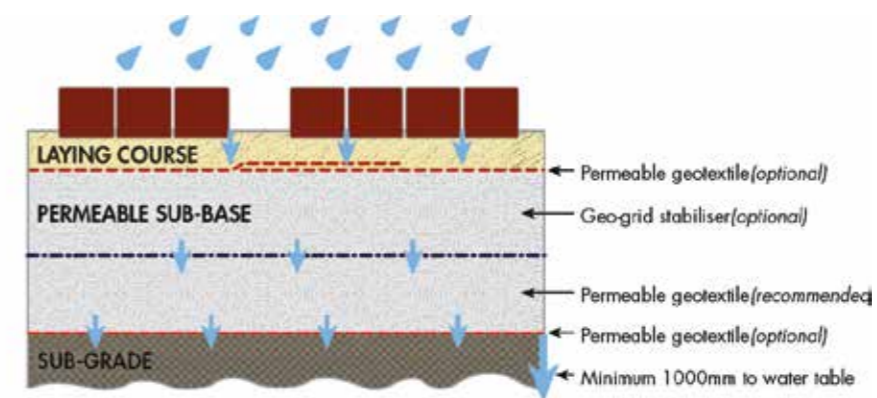
Can be used with Tarmac porous asphalts for highly porous driveways, car parks, sports surfaces and play areas.

## Ultimate versatility

Suitable for use with a range of surfaces including asphalt, porous concrete, block paving or decorative aggregates like Tarmac ULTINATURAL.

## Ultimate compliance

Developing and producing sustainable construction products and solutions is at the heart of Tarmac. All of our products are manufactured in the UK and certified under BES 6001 Responsible sourcing.



## HOW IT WORKS

### *Better water management*

With traditional low permeability paved surfaces covering large areas of our towns and cities, the risk of localised flooding after heavy rain has increased. As a result, planning rules increasingly require proposals for new large paved areas to include measures to reduce the risk of localised flooding.

When used in conjunction with a porous surface layer, ULTIFLOW acts as a reservoir layer, capturing and holding rain water which reduces the water rate flow through to the ground below. This feature helps to ensure that local drains are not overwhelmed by sudden heavy rain. It also provides a degree of passive filtration that improves the quality of the water released into the surrounding environment.

# PROVEN PERFORMANCE

## *New supermarket development, Kidderminster*

### CHALLENGE

Local planning requirements specified that the large car park in this new supermarket development must incorporate a sustainable drainage system to manage run off into local water courses. Tarmac was asked to present a proposal for a complete SuDS system.

### SOLUTION

This specialist solution required full site excavation to install a series of rainwater management measures to capture, hold and slowly release rainwater into the ground below. ULTIFLOW was used as a permeable base aggregate beneath a porous asphalt surface course.

### RESULT

ULTIFLOW has demonstrated excellent performance as part of the complete SuDS system, meeting client expectations and local planning requirements and helping to keep the car park open and well drained in all weather conditions.

## *Sustainable school, Birmingham*

### CHALLENGE

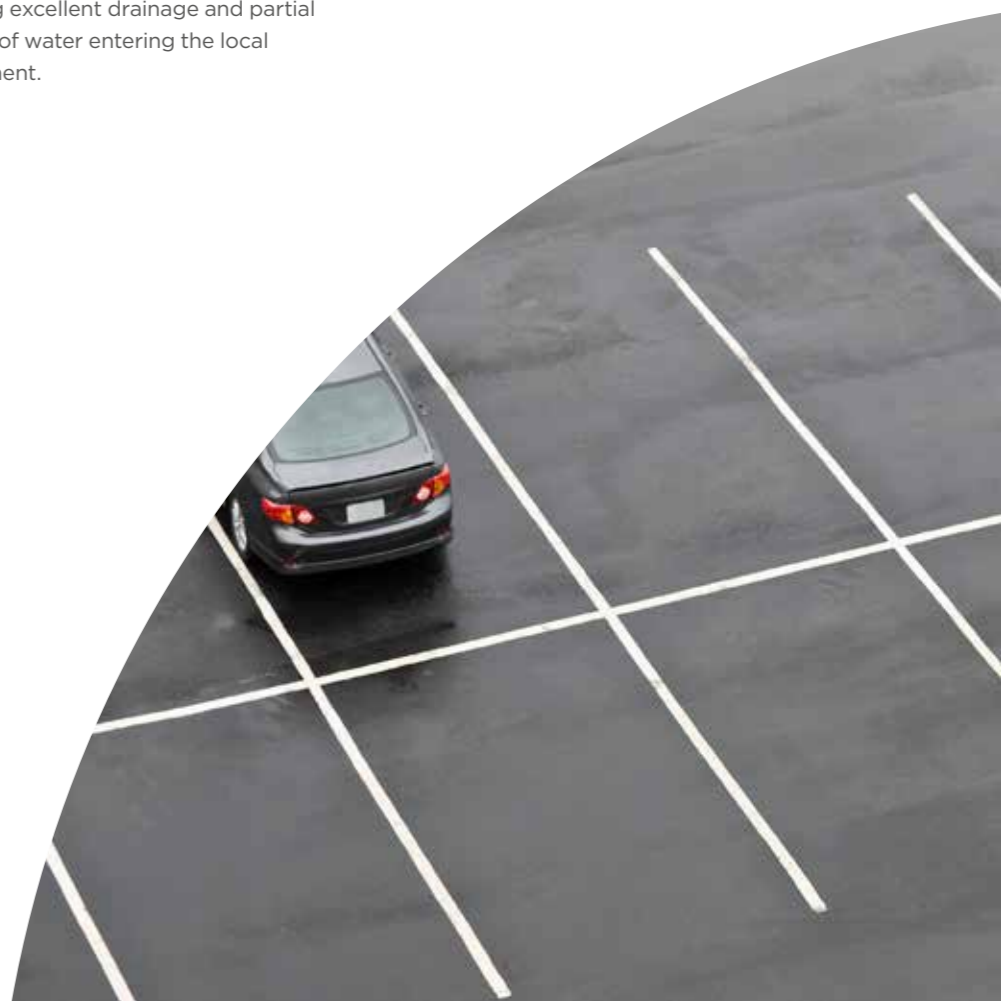
Sustainability was one of the main priorities when designing this new exemplar school in Smethwick, with many sustainable features throughout the building including solar panels, recycled building materials and a green, planted roof.

### SOLUTION

As part of this approach, a sustainable drainage system was proposed to provide a safe and durable playing surface and effective water management. ULTIFLOW was used as a permeable base aggregate, providing excellent drainage and partial filtration of water entering the local environment.

### RESULT

The excellent drainage characteristics and versatility of ULTIFLOW proved invaluable, keeping play surfaces safe and well drained, while reducing the risk of localised flooding on the school site and in the surrounding area.





## EXPERT ADVICE AND SUPPORT

No two projects are exactly the same. By combining our unique experience in asphalts with our unparalleled access to high quality aggregates we are able to supply solutions that perfectly match client requirements.

### Typical Applications

ULTIFLOW is a range of aggregates, available in different sizes to work with widely available SuDS systems.

Sub-base and reservoir layers are typically laid in a 150mm-450mm thick layer under a variety of pavement options, including paving slabs, block paving, porous asphalt and concrete.

Nominal aggregate size	Application
0/40mm	Drainage sub-base
4/20mm	Reservoir layer
4/40mm	Reservoir layer
10/63mm	Reservoir layer
2/6mm	Laying course

## OUR SUPPORT

### FAQs

#### **How does ULTIFLOW help avoid flooding?**

When used in conjunction with a porous surface layer, ULTIFLOW acts as a reservoir layer, capturing and storing rainwater and releasing it slowly into the ground, to avoid overwhelming local drainage systems.

#### **Does Tarmac offer complete SuDS solutions?**

Our Contracting Division can also design and install ULTISuDS, a complete sustainable drainage system including other measures like infiltration strips, ponds and swales.

#### **Where can I use ULTIFLOW?**

Wherever drainage is a problem, ULTIFLOW aggregates offer a solution. They can be used in a wide range of environments including driveways, car parks, sports surfaces and play areas.

#### **How can I be sure that ULTIFLOW is sustainably sourced?**

Delivering sustainable construction solutions is at the heart of Tarmac. All of our products are manufactured in the UK and certified under BES 6001 Responsible sourcing.

#### **What types of surface can ULTIFLOW be used with?**

ULTIFLOW can be used with many different pavement types including porous asphalts such as ULTIDRIVE POROUS, porous concrete, block paving or with decorative aggregates like Tarmac ULTINATURAL.

#### **What other aggregate products are available?**

With over 100 UK quarries, Tarmac have access to a huge range of aggregates for all types of construction and landscaping applications. For full details visit our website: [tarmac.com](http://tarmac.com)

#### **What standards does ULTIFLOW comply with?**

All of our production sites have BES6001 Responsible Sourcing Certificates, supplying products to a 'Very Good' standard. The ULTIFLOW range includes products meeting the requirements of BS 7533 part 13.

#### **Does Tarmac offer porous asphalt solutions?**

ULTIDRIVE POROUS provides the ideal permeable asphalt layer for construction of driveways and car parks. ULTIPLAY POROUS and ULTISPORT MUGA are designed specifically for the construction of porous playgrounds and sports surfaces.



## MORE ANSWERS

For more information about Tarmac ULTIFLOW contact your local regional office or visit [tarmac.com](http://tarmac.com)

T3 Tarmac Ground Floor T3 Trinity Park  
Bickenhill Lane Birmingham B37 7ES

[TARMAC.COM](http://TARMAC.COM)



[www.carbonbalancedpaper.com](http://www.carbonbalancedpaper.com)  
C:BP0001612003121941