



Charcon Urban Surface Protection

One of the biggest problems experienced by specifiers of high quality landscaping materials is to maintain the original appearance over a long period of time. This problem is particularly prevalent in areas subject to heavy pedestrian traffic and is the result of a number of factors.

Problem

Day to day, surface contamination presents an ongoing problem to local authorities who face huge cleaning and maintenance costs. Staining is an increasing issue with such problems as fast food litter, up 17% in the last four years. Other contaminants such as bird droppings, moss and chewing gum, which costs the UK in the region of £150 million per annum to remove, are difficult and expensive to treat.

Solution

Charcon Urban Surface Protection (USP) is pre-applied to the paving, preventing the adhesion of contaminants such as chewing gum, bird droppings and moss, as well as eliminating staining.

How it works

Charcon USP is a chemically inert, environmentally friendly water based fluoro polymer. Its mode of action when applied, distributes and binds fluorine molecules to the topography of the treated surface. The fluorine molecules through their chemical composition, give the treated surface non-stick properties.

Efflorescence

Charcon cannot accept responsibility for the effect of "efflorescence" which can be a characteristic of all building products with a high cement content. The phenomenon may be exhibited by an apparent loss of intensity of colour and the appearance of a milky white bloom on the face of the product. The effect generally disappears with time and is in no way detrimental to the performance of the product.

Colours

We take great care in the photographic accuracy of products shown, however due to variables in both the photographic process and your screen, colours may not exactly match current production. We recommend that clients obtain current production samples in suitable quantities as a general indication of colour before final selection.

To minimise colour and texture variation, we recommend that products are ordered from one batch. In manufacturing precast concrete products, variation in colour and texture may arise, and therefore total consistency cannot be guaranteed. The degree of rumbling on block paving products may also vary from product to product and between batches. Multi-coloured products are produced randomly therefore colour proportions in different blocks may vary.

Colours may vary slightly between production batches and customers are advised to mix and select product from at least three to five different packs on site. Natural stone products will feature more colour variation than concrete products.

StoneMaster

StoneMaster



Sustainable solutions

StoneMaster optimises manufacturing processes and minimises usage of raw materials through substitution of secondary aggregates, to produce hard landscaping with excellent sustainability credentials.

StoneMaster contains up to 50% reclaimed / recycled materials.

China clay stent - a by-product of the China clay industry used as an aggregate instead of quarrying virgin material.



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Printed on part-recycled paper



An AGGREGATE INDUSTRIES business



StoneMaster

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A revolutionary new range of flag and block paving from Charcon. With all the inherent beauty of indigenous stone.

You won't believe it's not natural.



StoneMaster a background

Working hand-in-hand with several local authorities, StoneMaster was developed to simulate the aesthetic appearance of natural sandstone. With up to 50% reclaimed/recycled content, StoneMaster is the natural choice for any prestigious landscape.

Indigenous sandstone paving (yorkstone) is an aesthetic, hard wearing product used extensively in the UK. The marketplace, however, is limited to those suppliers who have access to sandstone quarries and processing facilities. This limited supply means that prices for this product are high and lead times long. There are few alternative products as both the appearance and the indigenous aspect keep other products at bay.

Chinese and Indian sandstones have had some success in the domestic sector, but concrete alternatives, especially for commercial applications, have proved largely unsuccessful as technologies have not allowed producers

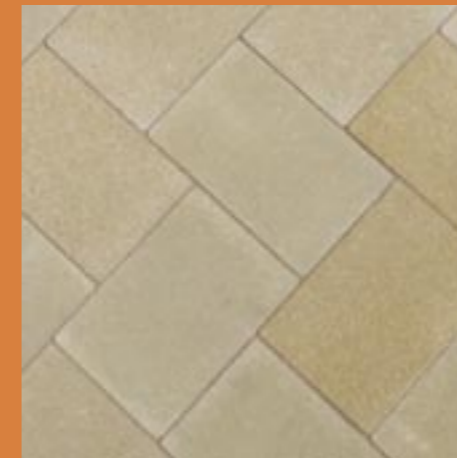
to achieve an acceptable visual appearance. **Until now.**

By incorporating fine sands into a face mix and mixing colours in moulds, Charcon are the first manufacturer to develop a range of flag and block paving in variegated colours that can compete successfully on appearance with yorkstone.

Moreover, the new product can be manufactured at a fraction of the cost of yorkstone, meaning budget constraints of natural stone are a thing of the past.



StoneMaster



Product features

Availability

Delivery timescales for a natural product can cause considerable problems. StoneMaster is held in stock, therefore reducing lead times.

Price

The cost of StoneMaster is considerably less than Natural Yorkstone, allowing specifiers to achieve the natural look they desire while still meeting tight budgets.

Fixed sizes

Random sizes have appeal but with a range of fixed slab sizes it is easier to produce specific patterns and designs.

Sustainability

With up to 50% of its content being recycled, StoneMaster achieves the Aggregate Industries sustainable stamp of approval.

USP

StoneMaster will have Charcon Urban Surface Protection pre-applied as standard.

Spot the difference?

One exhibits all the stunning beauty of natural sandstone and is eco friendly. And the other is natural sandstone.



Technical information

Standards

StoneMaster flag paving products comply with the performance levels in European Standard BS EN 1339.

StoneMaster block paving products comply with the performance levels in European Standard BS EN 1338.



Composition & manufacture

The product mixes for Charcon's StoneMaster range seek to utilise the most sustainable resources. The following materials have been selected to maximise resource productivity:

China clay stent - A by-product of the china clay industry used as an aggregate instead of quarrying virgin materials.

Water - Water used in the manufacturing process is recycled.

Performance

Skid resistance - StoneMaster flag paving has been tested for slip resistance in accordance with BS EN 1339 and the potential for slip is 'low'.

StoneMaster block paving has been tested for slip resistance in accordance with BS EN 1338 and the potential for slip is 'low'.

For full details of slip resistance, please refer to Charcon Technical Services on 01335 372222.

Strength - Concrete paving blocks meet the requirements of BS EN 1338.

StoneMaster flag paving meets the requirements of BS EN 1339.

Specification clauses

For further information, please refer to Charcon Technical Services on 01335 372222.

Laying information

Using 3 variations



Variation colour code



Variation 1



Variation 2



Variation 3

Please note that the laying patterns above are indicative only and that flags are laid randomly for best effect.

Spacers on the flags are to protect the edges during transit. Please note that we recommend the flags be laid on a mortar bed with a 5-10 mm mortar joint. We do not recommend that the flags be butt jointed as the spacers may clash between adjacent courses.

We recommend that the StoneMaster blocks and flags be laid from a minimum of 3-5 packs to prevent colour banding.

Please call the Technical helpline for more information 01335 372222.

Product data

Block Paving

Size (mm)	201x134	134x134	100x134
Finish	Washed/Cast	Washed/Cast	Washed/Cast
Thickness (mm)	80	80	80
Weight per unit (approx kg)	5.1	3.4	2.6
Units per m2 (approx)	37.3	55.6	74.6
m2 per pack (approx)	6.46	6.46	6.43
Pack weight (tonnes)	1.19	1.17	1.17
Colour availability	Buff	Buff	Buff
Chamfered	Yes	Yes	Yes

All blocks will be supplied with a pencil edge chamfer

Flag Paving

Size (mm)	750x600	600x600	600x450	450x450	450x300
Finish	Washed/Cast	Washed/Cast	Washed/Cast	Washed/Cast	Washed/Cast
Thickness (mm)	80	80	80	80	80
Weight per unit (approx kg)	86	69	51	38	25
Units per m2 (approx)	2.22	2.76	3.7	4.93	7.4
Colour availability	Buff	Buff	Buff	Buff	Buff
Chamfered	Yes	Yes	Yes	Yes	Yes

All flags will be supplied with a pencil edge chamfer