Urban Surface Protection product range

products, Charcon USP is preapplied to many of Charcon's paving range, eliminating the paving in order to apply the surface protection.

Sustainable Solutions

StoneMaster - simulates the aesthetic appearance of natural sandstone with up to 50% reclaimed/recycled content. The natural choice for any prestigious landscape.

EcoPave flag and block paving - The Eco range has been developed to maximise resource productivity - the optimum use of finite resources

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by minimising waste and by the inclusion of a high level of reclaimed/recycled materials.



Block paving

Andover Washed - premium washed block for prestigious schemes.

Andover Textured - black and white Cornish aggregate provides this finely textured block with its stylish appeal and synergy with Charcon's flag paving and kerb ranges.

Parliament - complements the shades and textures of other paving types to create dynamic contrasts within paved areas.

Flag paving

Ultrapave - steel or fibre reinforced, increasing product strength, with the added benefit that it is manufactured to replicate natural granite.

Appalachian - combines tradition with innovation by incorporating granite aggregates from the South West of England with other selected aggregates to give exceptional durability at an affordable price.

Malvern - premium quality flag incorporating innovative aggregate formulation. Colour, texture and size ranges complement existing landscapes or can create features in their own right.



Urban Surface Protection

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Surface Protectio ban

A revolutionary new pre-treatment for paving to protect against surface contamination. Reducing costs of cleaning and maintenance.

CHARCON



Features and benefits

Why use USP?

Cost savings - cleaning our city removal¹, can cost up to £23.40 pe sq metre per year. Charcon paving with pre-applied USP reduces maintenance costs to just £4.20 per sq metre per year. With this in mind, based on a city centre the same size as Liverpool², local authorities car save in the region of £576,000 per year³ with Charcon.



Reduced cleaning frequencies - surface will remove easily with the use of soiling cannot penetrate the product, therefore is washed off during rainfall.

Chewing gum - initially binds to the surface so as not to transfer onto shoes and then into public buildings. As the chewing gum dries, it

number of factors.

Urban Surface Protection provides many solutions

Unlike other surface protectors, USP is preapplied to the paving before it is delivered and laid. Whilst an element of cleansing may still be required during the life of the paving, the frequency and severity will be significantly reduced. USP will substantially lower maintenance costs.

The sealant gives self cleansing properties, meaning that heavy rainfall can wash away most deposits. Chewing gum will not adhere over a long period so paving will only have small build ups rather than increasing growth.





street sweepers or low-powered washers. Evidence has shown that two men clean 30 m² of chewing gum in four hours, however, with Charcon USP pre-applied, two men can clean 480 m² in this time.

Reduced cleaning intensity - the pressure and quantity of water required, regardless of water temperature, all result in cost savings. The reduced pressure also eliminates the removal of sand and mortar between block paving, resulting in less trip claims and the requirement to re-sand/mortar.

Anti slip properties - as the product is not simply a coating, but an impregnator, the topography of the surface remains unchanged.

Ice conditions - the effect of water freezing on the surface, due to the beading effect actually assists in providing grip. The application of salt does not affect the product.

No waste – by pre-applying USP to Charcon paving within the manufacturing process, any surplus liquid is collected and re-used, resulting in no wastage.

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Problems and solutions



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.

Technical Data

de-icing salts

Chemical composition Aqueous fluorochemical dispersion Density 1.0kg/lt @ 25°C Chemical resistance Dilute acids and alkalis, water and