

UV COATED PAVING STONES AND STREET FURNITURES OF ISTON





WHY THE SURFACE PROTECTION IS REQUIRED

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- compare inadequate durable for fulfilling the service life
- quickly lose surface properties
- α quickly and permanently stained by environmental influences



WHAT IS THE UV COATING TECHNOLOGY?

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W UV coating technology is a permanent surface protection system based on UV coatings specifically for the production coating of concrete paving stones.



WHAT IS THE UV COATING SYSTEM?

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In principle, a high quality and permanent surface protection system requires the interaction of three different components:

- © Compaction and inner-hydrophobisation of core and surface concrete (Hydro-functional concrete additives)
- **Coating** system
- **Coating application**

FUNCTIONAL CONCRETE ADDITIVES



Appropriate structural concrete design for UV coating process.

- Mydro-functional Concrete Additives
 - Superplasticiser chemical additives
 - Hydrophobic chemical additives
- Os Dispersing Concrete Additives
 - Release agent chemicals

EFFECTS of USING ADDITIVES

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> Hydrofobic effect



Paving Stone without additives



Paving Stone with functional additives

EFFECTS of USING ADDITIVES

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> Efflorescence



COATING SYSTEM

CB

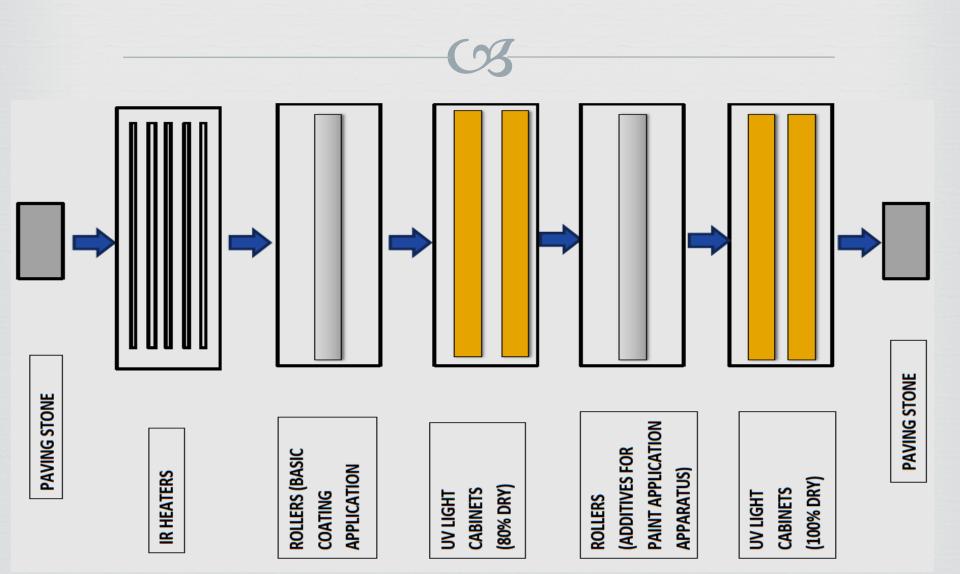
- This system is based on the usage of coating chemical additives which are used as double layer by the aid of UV drying for the surface protection.
 - Basic Coating for first layer
 - Protection Coating for second layer

COATING APPLICATION

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- Rollers (basic coating application apparatus additive)
- UV Light Cabinet (80% dry)
- Rollers (additives for paint application apparatus)
- UV Light Cabinet (100% dry)

COATING APPLICATION

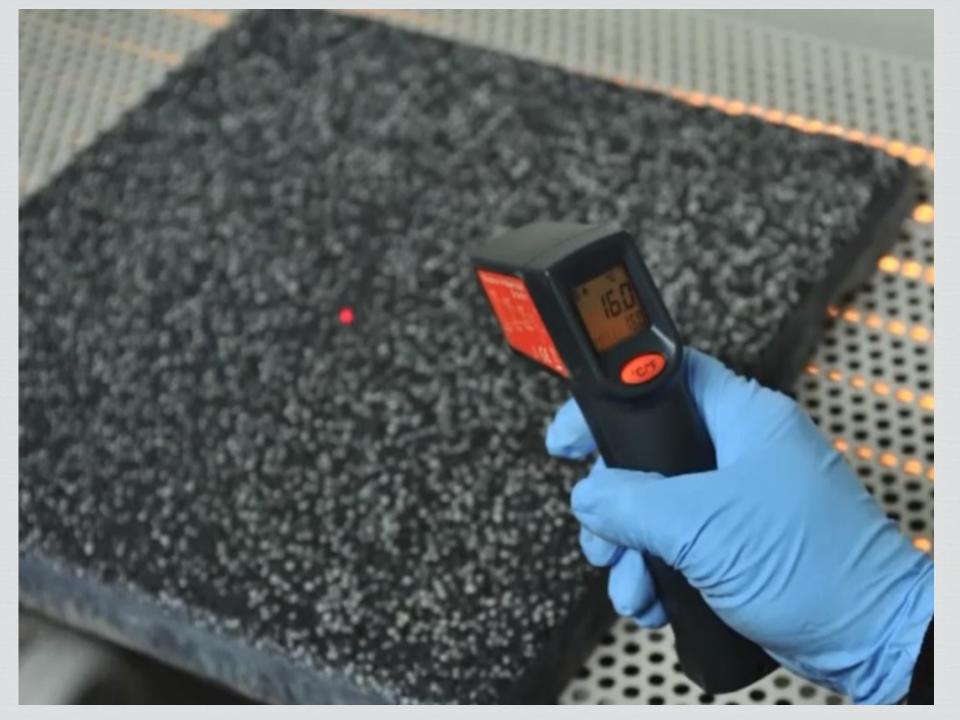




















the surface application of UV coated paving stone with different pollutants



the surface application of standard paving stone with different pollutants



the surface application of Standard and UV coated paving stone





After Cleaning the Surface of the Paving Stones

TECHNOLOGICAL AND ENVIRONMENTAL BENEFITS

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- *™ Increased freeze-thaw resistance*
- *™ Increase of abrasion resistance*
- *™ Increased UV resistance*
- Revention of efflorescence
- **≈** Easy-to-clean
- Minimization of pollution

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THANK YOU