

## Weberdry ES 135 (Nano Plus)

Water-based, protective, clear coating system



**Weberdry ES 135 (Nano Plus)** is a transparent, penetrative, and protective clear coating system that incorporates a unique blend of nano-particles. It effectively impregnates concrete and other porous natural stone facades, providing water repellence and hydrophobicity. This results in a non-tacky water repellent shield on treated surfaces, effectively blocking moisture ingress while allowing for vapour transmission and substrate breathability.

### PRODUCT BENEFITS



**WATER  
BASED**



**WATER  
REPELLENT**



**EXCELLENT  
PENETRATION**

### USES

Weberdry ES 135 is suitable for most substrates, including alkaline and neutral surfaces like concrete, LWC, mortar, red bricks, natural stones, and terra cotta. It reduces micro-organism growth and dirt build-up on treated surfaces. Primed surfaces can be coated with decorative, pigmented paints, and coatings. Additionally, it can be used as a water repellent additive in mortar/cement mixtures.

### ADVANTAGES

- Prevents moisture-induced damage
- Prevents efflorescence
- Protects against seepage from heavy rain
- UV protection

### PROCEDURE & APPLICATION



#### Surface Preparation

All surfaces must be dry, clean, sound, and free from any laitance, oil, grease, and any contaminants. Replace or repair damaged substrates. There should not be rising dampness in walls. Glass, windows, doors, door frames must be protected from product application or overspray. Fresh concrete, mortar joints must be cured 3 - 4 days before applying treatment. Chemical cleaners on surfaces must be rinsed off before application. If not rinsed off, they may cause discoloration or affect product curing times. The moisture content of substrate must be >4%.

#### Application

Apply 2-3 coats of Weberdry ES 135 depending on porosity. Facades can be impregnated by means of flooding using a coarse droplet spray pattern. Airless spray (non-atomized) at a spraying distance of about 5-10 cm can also be used. Brushes, Lamb's wool, medium nip (6-9mm) rollers can also be used. Surface is adequately saturated till there is no further absorption within a 1-minute period. Very absorbent or porous surfaces require repeated WET-on-WET application. Allow for 1 hour intervals between coats. Ideal application temperatures are between +10°C to +35°C.



### CONSUMPTION

Approx. 100 - 250 g/m<sup>2</sup> for 2 coats application WET on WET. Coverage may vary depending on surface and site conditions.

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## TECHNICAL DATA & PHYSICAL PROPERTIES

Description	Milky emulsion
Viscosity	Very low
Specific Gravity	Approx. 1.0 kg/litre
Active Matter Type	Proprietary blend of organic / inorganic nano particles

### Water uptake ability after saturation spraying

Water Uptake (%)	Untreated sample	Treated samples	Test
Artificial Limestone	~11 %	~2 %	DIN 52103
Red Brick	~12 %	~2 %	DIN 52103
Concrete	~7 %	~2 %	DIN 52103

### Water absorption ability of red brick facades, 3 weeks after saturation spray at 140km/h wind speed of rain for 10 mins

Water Absorption (Karsten method)	Approx. 0.01 kg/m <sup>2</sup>
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### Water vapour permeability after saturation spraying on 10mm thick mounted substrate

WV Permeability	~0.095 g/m <sup>2</sup> xday (Dry Cup Method - porous sandstone)
	0.100 g/m <sup>2</sup> xday (Dry Cup Method - control sample)

### Penetration depths of product on treated surfaces

Single Impregnation (10% active)	2.0 - 5.0 mm
Double impregnation (10% active)	3.5 - 7.0 mm
Based on 10% active content	2.0 - 7.0 mm
Based on 25% active content	3.5 - 10.0 mm

Specifications are subject to change without notification. Results shown are typical but reflect laboratory test procedures conducted in laboratory conditions. Actual field performance will depend on installation methods and site conditions.

## STORAGE & PACKING

Weberdry ES 135 (Nano Plus) is available in 4 litres and 18 litres pails.  
Shelf life of 12 months if unopened and kept in a sheltered and dry place.

## HEALTH & SAFETY

In case of contact with eyes, rinse immediately with plenty of water, and seek medical assistance. After contact with skin, wash immediately with plenty of soap and water. Keep out of reach of children.

\*Note: Because it is not possible to give specific instructions for the various site conditions or to control the applications, the information on this Technical Data Sheet is for general guidance only. Saint-Gobain (Singapore) Pte Ltd reserves the rights to amend the contents of the data sheet at its sole discretion. (Jan '23)



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