

# OPTEC<sup>®</sup> EC-111

Admixture for enhancing high-quality surfaces and for reducing efflorescence  
Waterproofing admixture for concrete in accordance to EN 934-2:T9

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## Product Description

OPTEC<sup>®</sup>EC-111 is used for enhancing all high-quality concrete elements that require efflorescence reduced surfaces and intense colours. Most important examples for application include the production of slabs, interlocking pavement, kerbstones, palisades, masonry elements, etc.

## Properties/Mode of Action

- The active substances of OPTEC<sup>®</sup> EC-111 make the walls of capillary pores water-repellent and reduce the capillary suction effect.
- The transport of dissolved calcium hydroxide to the surface is impaired and thereby, the tendency to effloresce is significantly reduced.
- Surface-active substances create a better dispersion of the cement particles, making the concrete more homogenous and easier to compact.
- Superficial slurries that are generated during vibration effect close the textured surfaces.
- Moisture is reduced in the capillaries. A better dispersion of colour pigments allows a more intense and even dyeing of the concrete.

## Dosage and Use

OPTEC<sup>®</sup>EC-111 is added to the gauging water or onto the ready mix. The concrete should be run as moist as possible in order to increase the effect of OPTEC<sup>®</sup>EC-111

## Typical Properties

Effective component	Fatty acid
Form	Liquid
Homogeneity	Homogeneous (proved acc. to DIN V 20000-100, annex A)
Colour	White
Dry material content	Liquid
Density	1.00 ± 0.02 g/cm <sup>3</sup>
Freezing point	Approx. 0°C
pH-value	6.0 ± 1
Total chloride content	< 0.10 m.-%
Water-soluble chloride content	< 0.10 m.-%

Alkali content	Approx. 0.5 m.-%
Storage	Protect from frost
Recommended dosage	0.20–2.30 m.-% of cement
Delivery form	1000 kg containers; 220 kg drums; 23 kg cans
Physiological effect	May irritate skin and eyes; see MSDS.
Shelf-life	Approx. 6 month in closed original containers

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