

OPTEC[®] EC-640

Admixture for enhancing high-quality surfaces and to reduce efflorescence

Product Description

OPTEC[®]EC-640 is used for the production of coloured concrete products from no-slump or semi-dry concrete. The main fields of application include the production of paver blocks, kerbstones or slabs.

Properties/Mode of Action

Surface-active substances effect a better dispersion of the cement particles. The concrete becomes more homogenous and easier to compact, thereby increasing both, green strength and ultimate strength. Close textured surfaces are promoted by the formation of slurries on the surface during vibration.

The integral hydrophobic components make the capillary pores water-repellent. The combined action of a denser concrete matrix, water repellency of capillary pores and plasticizing, the transport of moisture is reduced in the capillaries. Thus, the dissolved calcium hydroxide can only migrate in small quantities to the surface resulting in a reduced tendency to effloresce.

Finished products are more uniform and more intense in colours.

Dosage and Use

OPTEC[®]EC-640 is added with the gauging water, or to the readymix.

The concrete should be run as moist as possible in the block making machine in order to even increase the effect of OPTEC[®]EC-640

Special Information

Preliminary tests according to official national standards are always required before use!

Typical Properties

Effective component	Surfactants
Form	Liquid
Colour	Dark brown
Density	1.01 ± 0.01 g/cm ³
Freezing point	Approx. 0°C
pH-value	10.0 ± 1

Storage	Keep well closed in original containers. Keep well closed. Protect from excessive heat and frost.
Recommended dosage	3–4 ml/kg CEM Approx. 0.3–0.4 % of CEM
Delivery form	1010 kg containers; 200 kg drums; 23 kg cans
Physiological effect	May irritate skin and eyes; see MSDS.
Shelf-life	Approx. 12 month in closed original containers

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