

OPTEC[®] EC-642

Admixture for enhancing high-quality surfaces and reducing efflorescence

Product Description and Application

OPTEC[®]EC-642 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.

Technical Data

| Form | Fluid |
|----------------------|---|
| Colour | Brown |
| Density | $1.01 \pm 0.01 \text{ g/cm}^3$ |
| pH-value | 10.0 ± 1.0 |
| Storage | Keep original containers closed, protect from excessive heat and frost. |
| Physiological effect | May irritate skin and eyes; see SDS (Safety Data Sheet). |
| Shelf life | approx. 1 year in closed original containers |

Mode of Action

Surface-active substances affect 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.

Dosing and Special Information

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

OPTEC[®] EC-642 is added to the gauging water, however, it may also be dosed onto the aggregates. The concrete should be run as moist as possible in the block making machine in order to evenly increase the effect of OPTEC[®] EC-642.



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