

Evonik: New efflorescence control agent for concrete

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- TEGOSIVIN® CA 330 provides targeted protection against primary and secondary mineral blooming on the surface of concrete structures
- Improves protection against chemical stresses from de-icing salt and enhances the heat insulation properties of concrete

Contact person specialized press

Bettina Hinzmann
Consumer Specialties
Phone +49 201 173-1612
bettina.hinzmann@evonik.com

With TEGOSIVIN® CA 330, Evonik Industries is launching a new generation of efflorescence control products for concrete goods and concrete blocks.

Nowadays, components for highest aesthetic demands are made from concrete—ranging from exposed concrete areas to concrete paving stones and a variety of concrete goods including artistic elements. With the new efflorescence control agent TEGOSIVIN® CA 330 by Evonik, modern concrete components retain their visual appeal with concrete surfaces as flawless as can be. In addition, TEGOSIVIN® CA 330 improves the dispersion properties of the concrete mix, enhances the color effect of pigments, and reduces contamination effects. The hydrophobic effect of the additive also reduces the water absorption of the concrete, which improves the protection against chemical stresses from de-icing salt and enhances the heat insulation properties of concrete.

Thanks to its hydrophobic effect, TEGOSIVIN® CA 330 prevents unsightly mineral blooms on concrete surfaces and helps to underscore the aesthetic appeal of visible concrete elements. While efflorescence control is considered an interesting side effect in conventional hydrophobizing agents, TEGOSIVIN® CA 330 is one of the first products specifically developed for versatile primary and secondary efflorescence control.

Evonik Industries AG
Rellinghauser Strasse 1-11
45128 Essen
www.evonik.com

Chairman of the Supervisory Board
Dr. Werner Müller
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Registered Office: Essen
Register Court: Essen Local Court
Commercial Registry B 19474
VAT ID no. DE 811160003

TEGOSIVIN®CA 330 is a 50-percent siloxane/silane emulsion with particularly low VOC content. The eco-friendly concrete additive has a broad mode of action, but is highly economical as well. It is directly added to the concrete mix and shows effect in doses of approximately 0.1 to 0.2 percent with reference to the cement content.

The Consumer Specialties Business Unit of Evonik has many years of experience with polymer and additive chemicals for applications in adhesives and the construction industry. Its product portfolio ranges from polymeric bonding agents to high-performance additives. This includes silane-modified polymers, silicones, crosslinkers, impact modifiers, nanoparticles, foam inhibitors, thickeners as well as substrate wetting and dispersion additives. Thanks to its specialized know-how and continuous technology improvements, the business unit is a valuable and reliable partner for the construction industry.

Company information

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Profitable growth and a sustained increase in the value of the company form the heart of Evonik's corporate strategy. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Evonik benefits specifically from its innovative prowess and integrated technology platforms.

Evonik is active in over 100 countries around the world. In fiscal 2012 more than 33,000 employees generated sales of around €13.6 billion and an operating profit (adjusted EBITDA) of about €2.6 billion.

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