

MasterMatrix[®] SCC 220

Stabilizing agent in powder form for flowable concrete and self-compacting concrete

Field of application

MasterMatrix SCC 220 is particularly suitable for stabilizing very flowable concretes. Variations in water content arising from production conditions – for example due to changing moisture levels in the aggregates used – can be compensated for without the concrete becoming unstable, bleeding, or segregating.

Depending on the dosage, it is possible to produce highly flowable and self-compacting concretes with optimized binder content.

In addition, MasterMatrix SCC 220 can be used to increase the robustness of concrete with a lower consistency. The stability and robustness of the concrete can be optimized especially for challenging mix designs with a low paste content, unfavorable aggregate grading, or the addition of micro polypropylene-fibers, etc. Please contact Master Builders Solutions for information on other possible applications.

Effect

MasterMatrix SCC 220 is a highly effective powdered concrete admixture based on a high-molecular-weight raw material and is used as a stabilizing agent for concrete. The admixture is significantly more dosage-efficient than mineral fillers. It provides excellent water retention and prevents bleeding and segregation. The polymer network ensures stable and uniform concrete properties – even when there are variations in raw materials, water content, and concrete temperature.

Dosage

Recommended dosage range: 0.2–1.0% by weight of the cement content.

The required dosage depends on the desired concrete properties and must be determined through prior suitability testing.

Application

MasterMatrix SCC 220 can be used with all cement types in accordance with EN 197. To achieve optimum effect, the powdered stabilizing agent should be added to the dry materials.

If necessary, additional MasterMatrix SCC 220 can be mixed in afterwards to adjust the concrete. The product can be combined with a wide range of products from Master Builders Solutions.

Product data	
Form of delivery	Powder
Color*)	White
Bulk density (at 20 °C)	730–930 kg/m ³
pH value (10% solution at 20 °C)	8,5 ± 1.0
Maximum chloride content	≤ 0.10% by mass
Maximum alkali content	≤ 2.5% by mass
*) Color variations may occur due to varying UV exposure during storage. These color differences have no influence on the product's performance in concrete or mortar. Master Builders Solutions guarantees consistent performance for all supplied admixtures.	

Storage and shelf life


Store in a cool, dry place in the sealed original packaging. Protect from frost, excessive heat, and contamination. Under normal storage conditions (sealed, 20 °C), the minimum shelf life is 2 years.

Packaging

15 kg bag.

Safety instructions

Observe standard precautions when handling chemical products (e.g., use gloves and safety goggles). Please also refer to the product's safety data sheet.

	
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Master Builders Solutions Denmark A/S Hallandsvej 1, 6230 Rødekro, Denmark	
DoP no.: DK0279/01 EN 934-2:2009+A1:2012 Notified body: 0615 Water retaining Admixture EN 934-2:T4	
Chloride ion content:	≤0,10 %
Alkali content:	≤2,5 %
Corrosion behaviour:	Contains components only from EN 934-1:2008, Annex A.1.
Compressive strength:	Passed
Air content:	Passed
Bleeding	Passed
Dangerous substances:	See SDS
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Disposal

Disposal of the product must comply with applicable legislation and is the responsibility of the end user.

Subject to change or printing errors.

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NOTE:

The technical information and application instructions are provided by Master Builders Solutions Denmark A/S with the aim of helping the user achieve the best possible and most economical result. Our instructions are based on many years of experience and on our current knowledge. Since the user's working conditions are beyond our control, we cannot accept responsibility for the results a user may obtain from using the product. It is always the user's responsibility to take the necessary precautions in their specific case to comply with applicable regulations. If there is any doubt about the product's properties or use, Master Builders Solutions Denmark A/S must be contacted immediately.

N.B. As all our data sheets are continuously updated, it is the user's responsibility to obtain the latest version.