

MasterMatrix SDC 150

Formerly: RHEOMATRIX® 150

High-performance viscosity modifying agent (VMA) for Rheodynamic concrete

DESCRIPTION AND WHERE TO USE

MasterMatrix SDC 150 is an aqueous solution of a high-molecular weight innovative synthetic copolymer.

Thanks to its tailored mode of action in concrete, MasterMatrix SDC 150 imparts a level of viscosity within a mix enabling the right balance between fluidity, passing ability and resistance to segregation to be achieved. The balance is lacking when the fluidity of the concrete is obtained by adding water.

SMART DYNAMIC CONCRETE™

MasterMatrix SDC 150 is a key component to BASF's Smart Dynamic Concrete concept for benefits in:

- Economy: Savings on fines (<0.125 mm), up to 40% faster placing and up to 5 times higher labor productivity.
- Ecology: Less fines - less CO₂ emission, and higher concrete durability.
- Ergonomic: No vibration, no noise, low stickiness of the concrete mixture.

MasterMatrix SDC 150 is optimized for use whenever an increase in mix viscosity would be advantageous, especially for SCC (Self-compacting concrete) with a low fines content (material passing the 0.125 mm sieve).

BENEFITS

MasterMatrix SDC 150 offers the following benefits for the concrete industry:

- Prevents segregation and bleeding
- Can be used with all types of cement
- Does not effect setting times nor early strengths
- Mixes are more robust to changes in water demand

MECHANISM OF ACTION

MasterMatrix SDC 150 consists of a water-soluble polymer which modifies the rheological properties of the mix.

The polymer adjusts the viscosity of the paste to obtain the optimum stabilization.

MasterMatrix SDC 150 has a dual action:

- It maintains internal cohesion of the concrete during casting
- It resists segregation when the concrete has been placed

DIRECTIONS FOR USE

MasterMatrix SDC 150 is a ready-to-use liquid admixture, which should be added to the concrete during the mixing process together with the water. This is particularly important in order to obtain maximum efficacy. For best performance it is advisable to continue mixing until the mix is completely homogeneous.

No special requirements must be observed while the product is used. Protection gloves and glasses are recommended. Do not eat, drink or smoke during the application. MasterMatrix SDC 150 is non-flammable, non-toxic or irritant and is not subject to special transport requirements. MasterMatrix SDC 150 is dilutable with water.

COMPATIBILITY

MasterMatrix SDC 150 is compatible with all types of cements. The rheological behaviour induced by MasterMatrix SDC 150 is optimised when used in combination with MasterGlenium superplasticizer.

To produce highly fluid concretes or SCC, MasterMatrix SDC 150 needs be used in combination with a superplasticizer admixture of the MasterGlenium range in order to guarantee maximum efficacy.

MasterMatrix SDC 150 is not compatible with all admixtures of the MasterRheobuild series.

Technical Information	
Form	Liquid
Relative density (g/ml at 20°C)	0.987 – 1.027

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DOSAGE

MasterMatrix SDC 150 is batched on the total of fines below 0.125 mm and is recommended between 0.25- 1.5 % by weight of fines.

Other dosages may be recommended in special cases according to specific job site conditions. In this case please consult our Technical Services Department.

PACKAGING AND STORAGE

MasterMatrix SDC 150 is available in 10 litre cans, in 208 litre drums, 1000 litre container or in bulk.

MasterMatrix SDC 150 must be stored at temperatures above 5°C. Store under cover, out of direct sunlight and protect from extreme temperatures. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

For special storage advice consult our Technical Services Department. Up to 12 months if stored according to manufacturer's instructions in original sealed packaging.

HANDLING AND TRANSPORTATION

No special requirements must be observed while the product is used. Protection gloves and glasses are recommended. Do not eat, drink or smoke during the application.

MasterMatrix SDC 150 is non-flammable, non-toxic or irritant and is not subject to special transport requirements. MasterMatrix SDC 150 is dilutable with water.

From 16/12/1992 BASF Construction Chemicals Italia Spa operates under the Quality System in compliance with European Standard UNI-EN ISO 9001. The environmental management system of BASF Construction Chemicals Italia Spa is certified accordingly to UNI EN ISO 14001 and the System of Safety Management is certified accordingly to OHSAS 18001. Environment sustainability: Partner Green Building Council since 2009.

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For further information, please consult your local BASF Construction Chemicals Italia Spa representative.

The technical advice on how to use our products, either written or verbally given, are based on the present state of our best scientific and practical knowledge, and no guarantee and/or implicit or explicit responsibility are assumed on final results of works executed by the use of our products.

The owner, his representative, or the contractor is responsible for checking the suitability of our products as to the intended use and aims.

Supersedes all prior issues on this product.

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