

High-performance viscosity modifying agent (VMA) for fluid concretes

Description of Product

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

Thanks to its tailored mode of action in concrete, RheoMATRIX 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 Construction:

RheoMATRIX 150 is a key component to BASF's Smart Dynamic Construction concept for benefits in:

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

RheoMATRIX 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).

RheoMATRIX 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

RheoMATRIX 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.

RheoMATRIX 150 has a dual action:

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

Direction of Use

RheoMATRIX 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.

Compatibility

RheoMATRIX 150 is compatible with all types of cements. The rheological behaviour induced by RheoMATRIX 150 is optimised when used in combination with GLENIUM superplasticizer. To produce highly fluid concretes or SCC, RheoMATRIX 150 needs be used in combination with a superplasticizer admixture of the GLENIUM[®] range in order to guarantee maximum efficacy.

RheoMATRIX 150 is not compatible with all admixtures of the RHEOBUILD series.

Technical Data/Typical Properties

Appearance	Brownish liquid
Specific gravity @ 20°C	1.00 - 1.02 g/cm ³
pH-value @ 20°C	6 - 9
Chloride ion content	< 0.1%

Dosage Rate

RheoMATRIX 150 is batched on the total of fines below 0.1 mm and is recommended between 0.1-1.5% 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

RheoMATRIX 150 is supplied in 205 litre drums, 1,000 litre containers or in bulk.

Shelf Life

12 months if stored according to manufacturer's instructions in original unopened packaging.

Storage

RheoMATRIX 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.

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

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"BASF Construction Chemicals (UK) Limited" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.