

A new surfactant-based plasticizer, specially engineered for Manufactured Concrete Products

Description of Product

RheoFIT 740 has specially been developed for earth-dry concrete. This state-of-the-art plasticizer based on surfactant technology improves the productivity as well as the green and final strength.

Due to its tribological effect, RheoFIT 740 enhances the closeness of the lateral surfaces and eases the demoulding of the manufactured concrete products. Particular sharp edges with minimal vibration can be achieved.

FIT 4 VALUE:

RheoFIT 740 is a key component to Degussa's FIT 4 VALUE concept.

FIT 4 VALUE considers the four elements essential for MCP Manufactures:

1. FIT for Economics
2. FIT for Performance
3. FIT for Aesthetics
4. FIT for Durability

Here, FIT means meeting every requirement for economics, performance, aesthetics and durability.

Fields of Application

RheoFIT 740 is suitable for manufacturing MCP products and has no impact on the colour. Hence, RheoFIT 740 can also be utilized for coloured pavers and slabs.

Features and Benefits

RheoFIT 740 offers the following benefits for the MCP industry to:

- Optimised mix design
- Higher green strength
- Improved final strength
- Enhanced productivity due to higher production speed
- Sharp edges with minimal vibration
- Enhanced closeness of lateral surfaces

Application Procedure

RheoFIT 740 is a liquid ready-to-use admixture to be added to the concrete during the mixing process. The best results are obtained when the admixture is added after all the other components are already in the mixer and after the addition of at least 80% of the total water. The water content is adjusted to obtain the desired consistence or workability.

Adding Value to Concrete



RheoFIT 740

| Technical Data/Typical Properties | |
|--|-------------------------------|
| Appearance | Colourless liquid |
| Specific gravity @ 20°C | 1.00 ± 0.01 g/cm ³ |
| Solid content | 4.5 ± 0.4 M% |
| pH-value | 8.0 ± 1.0 |
| Chloride ion content | ≤ 0.1 % |
| Alkali content (Na ₂ O-aequivalent) | ≤ 0.5 % |

Dosage rate

The normally recommended dosage rate is 0.1 to 0.5 litres per 100 kg of cement.

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

Compatibility

RheoFIT 740 is compatible and recommended for use with:

- RheoFIT 790, efflorescence inhibitor
- RheoFIT 744, water repellent, to reduce water absorption (e.g. EN 1338, class 2 B)
- Rheofinish 299C, cleaning and protection agent
- Rheofinish 314J and 340M, form release agent, to enhance appearance

Packaging

RheoFIT 740 is available in 20 kg cans, 210 kg drums, 1'000 kg tanks or in bulk.

Storage

RheoFIT 740 must be stored in a place where the temperature does not drop below 5°C.

If stored in unopened containers according to manufacturer's instructions, the shelf life is 12 months.

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. RheoFIT 740 is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

Admixture Systems Europe

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