

# RheoFIT<sup>®</sup> 744

## A new waterproofer, specially engineered for Manufactured Concrete Products

### Description of Product

RheoFIT 744 is a ready-to-use, chloride free, waterproofer, specially designed for Manufactured Concrete Products.

RheoFIT 744 is reacting with the free lime from the cement hydration, thus plugging the network of capillaries in the concrete. The consequences of this action are the following:

- Capillary absorption is significantly decrease, thus decreasing water or chemical aggressive agent penetration
- The reaction with the free lime from the cement hydration reduces efflorescence development

### FIT 4 VALUE:

The FIT 4 VALUE concept addresses all process steps leading to high-quality MCP products. 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 744 is suitable for manufacturing MCP products exposed to water or high moisture such as pavers, blocks, kerbs, slabs as well as pipes.

RheoFIT 744 can also be used for coloured MCP products.

### Features and Benefits

RheoFIT 744 offers the following benefits for the MCP industry to:

- Decreased water absorption
- Inhibition of efflorescence

### Packaging

RheoFIT 744 is available in 10 litre cans, 210 litre drums or 1,000 litre tanks.

### Application Procedure

RheoFIT 744 is a liquid ready-to-use admixture which should be added to the mixing water.

### Technical Data/Typical Properties

Appearance	White milky liquid
Specific gravity @ 20°C	1.03 ± 0.02 g/cm <sup>3</sup>
Solid content	43 ± 2.2 %
pH-value	11.5 ± 1.5
Chloride ion content	≤ 0.1 %
Alkali content (Na <sub>2</sub> O-aequivalent)	≤ 1 %

### Dosage rate

The normally recommended dosage rate is 0.3 to 2.0 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.

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## Compatibility

RheoFIT 744 is compatible and recommended for use with:

- RheoFIT 700/701/740, plasticizer
- RheoFIT 703/741, water inducer
- RheoFIT 745, plasticizer
- Rheofinish 299C, cleaning and protection agent
- Rheofinish 314J and 340M, form release agent, to enhance appearance

## Storage

RheoFIT 744 must be stored in a place where the temperature does not drop below 5°C. Store under cover, out of direct sunlight and protect from extremes of temperatures. Failure to comply with the recommended storage conditions may result in premature deterioration for the product or packaging. In case of long period of storage, it is recommended to stir the product mechanically before use.

If stored in unopened containers according to manufacturer's instructions, the shelf life is 9 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 744 is non-flammable, non-toxic or irritant and is not subject to special transport requirements.

## Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

## Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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**As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.**

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