

# RHEOFIT<sup>®</sup> 1141

A permeability reducing admixture for concrete and mortar

## DESCRIPTION

**Rheofit 1141** is an integral admixture designed to reduce the rate of transmission of moisture through concrete.

**Rheofit 1141** is based on purified stearic acid supplied as a white pourable emulsion. It does not contain water reducers, accelerators, air entraining or surfactant chemicals that might cause undesirable side effects when used in conjunction with admixtures normally used in concrete. **Rheofit 1141**, used as an integral admixture in concrete, reacts with the cement hydration process to form a hydrophobic coating on pores and voids in concrete, reducing capillary suction and minimising absorption and penetration of water.

**Rheofit 1141** is classified by AS 1478.1-2000 Appendix F as a Class F4(c) Admixture.

## RECOMMENDED FOR

- most applications requiring watertight concrete such as basement walls and floors, tunnels and silos
- concrete blocks and bricks
- low cement content panels and cladding
- wall and tank foundations, renderings

## FEATURES AND BENEFITS

**Rheofit 1141** added to a well-designed concrete mix at the recommended dose rate:

- **reduces permeability, particularly in low cement content and high water/cement ratio concrete**
- **increases durability & watertightness by protecting against the ingress of dampness, soluble salts and other aggressive chemicals**
- **reduces relative absorption**
- **has no detrimental effect on setting or strength**
- **reduces shrinkage under typical exposed conditions of wetting/drying cycles**
- **does not affect drinking water in concrete storage tanks**
- **suitable for subsequent application of render, tiles or paint**

## NOT RECOMMENDED FOR

**Rheofit 1141** will not provide effective permeability reduction where hydrostatic pressure is involved.

## RATE OF USE

### Concrete

1.0 litre per 100kg of cementitious material.

### Render

1.0 litre per 100kg of cementitious material (approximately 0.4 litres per 3.5 square metres of 20mm finished thickness).

### Brick Mortar

1.0 litre per 100kg of cementitious material (approximately 2 to 2.4 litres per 1000 bricks).

## INSTRUCTIONS FOR USE

**Rheofit 1141** should be added separately to the initial batching water to ensure complete distribution throughout the mix. Use only potable water - do not use sea water, bore water or water containing a high dissolved mineral content.

For mixing mortars in the field, where a pre-blend of **Rheofit 1141** and water is to be used, it is advisable to conduct a trial using 1 part **Rheofit 1141** to 50 parts plain water to determine water requirements then adjust the mix to maintain the dosage rate of 1.0 litre of **Rheofit 1141** per 100kg of cementitious material. Mix only as much of the **Rheofit 1141**/water mix as can be used within 1 - 2 hours. Ensure the pre-blend container remains cool and covered to avoid contamination.

Store **Rheofit 1141** in a cool place out of direct sunlight.

## CURING

For optimum reduction in permeability, the concrete should be effectively cured by water ponding or with a membrane forming curing compound, such as BASF's Masterkure 250 or Masterkure 404.

## PACKAGING

**Rheofit 1141** is available in 930 litre palletcons and 205 litre drums. In special circumstances **Rheofit 1141** can be packed in 20 litre cubes.

## PRECAUTIONS

**Rheofit 1141** liberates a small amount of free ammonia when added to concrete or mortar, ensure adequate ventilation is available. Undiluted **Rheofit 1141** may segregate if left standing for some time. It is advisable to mix well before using.



The Chemical Company

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**STATEMENT OF RESPONSIBILITY**

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. **BASF Construction Chemicals data sheets are updated on a regular basis and it is the user's responsibility to obtain the most recent issue**

**NOTE**

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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