

Rheomix 111

Emulsion Admixture and Bonding Agent for Concrete and Mortars

Description

Rheomix 111 is an alkali compatible acrylic emulsion, specially modified for use in concrete and cement mortars. The product is a white liquid, which cures to a clear film.

Typical Uses

Rheomix 111 may be used as an adhesive, as modifier for thin section repair mortars or to provide concrete with low permeability, increased abrasion resistance and mild acid resistance.

Typical application

- Bonding repair surfacing.
- Industrial floor repairs and protection.
- Improving bond and water tightness of plasters.
- Primer for Mastertop 528 / 538
- Improved washability and chemical resistance of floors in dairies abattoirs, food processing plants and the like (used in combination with dry shake floor hardeners).

Special Features

Rheomix 111 is non-toxic, does not discolour and is suitable for mortars subject to ultraviolet exposure.

Special benefits are:

- Elimination of need for water cure to achieve strength.
- Elimination of dusting caused by lack of surface cure.

- Adjustment of elastic modulus according to dosage.
- Lowered liquid absorption arresting chemical aggression.

Limitations

Do not use Rheomix 111:

- At below 5°C.
- In extreme temperatures (+40°C), without protection.
- Where aromatic solvents may soften the film.
- Where in service temperature exceeds 100°C.

Application

Preparation

Surfaces to be treated must be clean and structurally sound. All dust, grease, oil, laitance or bond breakers must be removed, and concrete substrates thoroughly wetted to reduce water absorption.

Cementitious Bond Coat

Mix equal parts of Rheomix 111 and water, and to this add Portland cement to form a heavy bodied cream like slurry. Spread the bond coat evenly using a stiff fibre brush. Do not leave standing pools. Place Emaco repair mortars before the bond coat dries. Place Mastertop 528 / 538 onto dry primer coats. See specific datasheets for detail.

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Modified Mortars or Concrete

Modification is achieved by preparing mortar or concrete with a mixture of Rheomix 111 and potable water as the gauging liquid. Ratios of Rheomix 111 to water vary according to requirements. In general, the following guide may be used, however actual repair product guidelines as detailed in the specific repair product data sheets must be followed:

Bond Coats	1:1
Thin Repair Mortars(±10mm)	1:3
Thick Surfacing (± 20mm)	1:5
Seal Coats	1:2 or undiluted

Consult BASF Construction Chemicals SA Technical Services.

Curing

Rheomix 111 modified mixes must not be water cured. Water prevents oxygenation and polymerization of the emulsion. Protection with polyethylene sheet or a suitable BASF Construction Chemicals curing compound is all that is necessary.

Packaging

Rheomix 111 is available in 5 or 25 litre containers and 200 litre drums.

Storage

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 of the product or packaging. For specific storage advice consult BASF Construction Chemicals SA's Technical Services Department.

Safety precautions

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

Note

For professional use only

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals SA representative. BASF Construction Chemicals SA reserves the right to have the true cause of any difficulty determined by accepted test methods

Quality and care

All products originating from BASF Construction Chemicals' SA facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001:2000.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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

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