



Hall's
MANUFACTURING

Flexi Mortar

Technical Data Sheet

A non-toxic latex-based liquid admixture for Portland cement plasters, screeds or concrete. Flex mortar replace some or all the water in cement mixes to improve bond, waterproofing, flexural, tensile and abrasive strengths, adhesion, thin film hardness, weak acid resistance, adhesion to asphalt and drying shrinkage. It Can also be used to waterproof water-containing structures. Used in conjunction with Halls Polypropylene Membrane for cracks and joints in structures. Improves the adhesion of slush-coats for re-plastering pools, patching, repairing or re-screening floors. Improves adhesion and waterproofing qualities of Halls Tile Adhesive, Tile Grout, Self-Levelling Floor Screed. Used as an additive to Pool Crete to promote colour enhancement.

Technical data

Appearance: liquid Clear Green Liquid
Odor Citrus
Viscosity 1000 mPa.s at 25°C
Shelf life 12 month
Relative density 20°C 1,06 kg/l
pH 100% 20°C 7
Flash point 55-100 °C
Solubility in water 20°C complete

Instructions for use

Surface Preparation

Ensure surfaces are hard, firm and clean, free of grease and oil and are not flaking

APPLICATIONS

WATERPROOFING UNPAINTED, CRACKED RESERVOIRS

Acid-wash the walls and floor of the reservoir using a solution of 1 volume hydrochloric acid and 2 volumes water. Allow the acid to act for about 10 minutes, wire brush and flush with water. Allow to dry. Hack out cracks. Wire brush internal surfaces of cracks.

Fill cracks with a mixture of 1 volume cement and 2 volumes plaster sand mixed to a stiff paste with a solution of 1 volume FLEXI MOTAR and 1 volume water. When filling is hard and dry, mix 1 volume FLEXI MOTAR, 1 volume water and enough cement to produce a pourable slurry. Cut polypropylene membrane into convenient widths, dip into slurry, apply over filled cracks and smooth down using gloved hands and finally paint the membrane with the slurry.

Coverage: 1 litre FLEXI MOTAR, 1 litre water, 4 kg Portland cement will cover 1,2m² using Halls polypropylene membrane. If desired, the entire internal surfaces of the reservoir may be painted after the cracks have been repaired. This may be done using the same mix of slurry.

Coverage: 1 litre FLEXI MOTAR, 1 litre water, 4 kg Portland cement will cover approximately 20m²/coat. Allow all work to dry and air cure for 4 days before filling the reservoir.

PATCHING AND REPAIRING CONCRETE

Select a cement/sand ratio suitable for the patching to be done and incorporate FLEXI MOTAR in place of half the water. If the patching is to be immersed in water allow 4 days to air cure before filling with water.

IMPROVEMENT OF HALLS SELF-LEVELLING FLOORS CREED AS A HARD-WEARING SURFACE

Follow instructions for Halls Self-levelling Floor screed as per its datasheet, but instead of using water for mixing, use a solution of 1 volume FLEXI MOTAR and 2 volumes water. Finish in the normal way.

TO IMPROVE ADHESION OF TILE ADHESIVE TO DIFFICULT SUBSTRATES, SMOOTH SURFACES OR HEAVY TILES

Ensure all surfaces and tiles are clean. Use a solution of 1 volume FLEXI MOTAR and 2 volumes water to mix Halls Wall and Floor Tile Adhesive to a paste form. In extreme cases, damp the surface and prime with a mix of 1 volume cement, 1 volume plaster sand brought to a slurry with a solution of 1 volume FLEXI MOTAR and 2 volumes water.

Head Office

Storage stability

Store containers to prevent it from Leaking, store the container in a cool dry place.

Safety

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

S25: Avoid contact with eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Advantages Of Formulation

Lime fast.

Compatible with Portland Cement, high alumina cement, lime and sand.

Exceptional adhesion in cement mixes.

Non-flammable.

Unaffected by damp conditions, mixtures may be applied to damp surfaces.

Better resistance to frost.

Note:

Will not bond to plastic, rubber or gypsum plaster.

Cannot be used in freezing weather, but withstands freezing after placing.

Priming and bonding coats without cement are not recommended.

Not recommended for waterproofing roofs.