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MATRIX Floor underlayment, Specialist plaster & Floor Repair Compound

DESCRIPTION:

USES

- Matrix is a two-part formulation consisting of an acrylic emulsion and a cement based powder. When these components are mixed in the correct proportions the resulting mortar has improved adhesion and strength compared to normal cement plaster.
- Matrix is recommended for smoothing, levelling and repairing concrete floors before laying carpet or vinyl sheeting. Matrix is also suitable on lean, sanded timber floors, although it will crack if there is floorboard movement.
- Waterproofing plaster – generally use two layers. Use with reinforcing tape or Joint safe tape.
- Matrix is recommended for repairing damaged floor or floors with old adhesive or floor covering remnants.
- Very smooth - Can be featheredged
- Versatile: Strong adhesion to many substrates, including old adhesive etc
- Can be sanded for a fine finish

TYPICAL PROPERTIES:

Type:

Base:

Colour:

Flash Point:

Density:

Shelf Life:

Packaging:

Compressive Strength

- Two part trowelable mortar.
- Acrylic latex and cementitious powder.
- Grey when dry
- Non flammable, water borne
- Approximately 2kg/ltr when mixed
- 6 months in unopened containers stored at 5-30°C. Latex must not freeze and powder must be kept dry.
- Latex in 5, 20, 200 litre containers, powder in 25kg bags.
- 25 Mpa

DIRECTIONS FOR USE:

Floor Preparation:

Concrete

All residues of oil and grease must be removed by scraping, grinding or detergent cleaning. Cracks should be dug out and any loose or crumbly material removed. The floor should be thoroughly swept. Old adhesive and/or floor covering remnants may be left and covered over by Matrix as long as they are well bonded. If in doubt about potential wet or damp floors, seal with Aquaguard 101 before proceeding. If Aquaguard is applied, prime the cured Aquaguard with Neoprime before proceeding with the application of Matrix.

- Timber & particle boards: use Matrix as recommended.
- Old tiles, Terrazzo, resin floors: pre-prime with Neoprime

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Priming: Not essential but to obtain maximum adhesion of the Matrix compound to the floor it is recommended that a priming coat of Matrix powder (24kg) and FLC emulsion (5kg) be brushed well into the floor. This ensures the Matrix does not dry too quickly.
Non-porous substrates: prime with Neoprime.

Mixing: 25 kg bag plus 5 litres of emulsion. Mixing may be carried out by hand, electric drill, Hippo, or concrete mixer. The usual procedure, if machine mixing, is to add the powder to the mixer followed by the Matrix emulsion until the required consistency is reached. The mixing time should not exceed 2-3 minutes. Avoid over mixing. For stiff mixes 3-4 litres of matrix emulsion may be used.

Installation: **Floor levelling** The mixed Matrix compound should be poured onto the dry priming coat (if needed) and screeded to the required thickness. When this is done the compound may be trowelled to give the required finish. A wooden or steel trowel may be used and this should be kept damp by dipping in water. The entire surface should be trowelled to avoid a variation in the texture. The elapsed time allowed before trowelling is important. An experienced applicator will be able to obtain the desired finish by trowelling almost immediately after screeding. However, if further trowelling is necessary, wait until the initial setting process has commenced and carefully use a steel trowel dipped in water. "Disc off" with a floor sander to remove any trowel marks.

Cracks in the sub floor should be filled carefully, never covered over or bridged with Matrix or these will tend to telegraph through. Any existing expansion joints must be extended through the layer of Matrix Superfine. Avoid laying in very hot conditions to avoid too rapid drying.

Waterproofing plaster

Mix as above and apply by trowel or brush. Allow to dry then apply a second coat. Incorporate the first coat with Nuplex reinforcing tape to create a strong and flexible waterproofing layer / joint.

In critical joints incorporate Joint safe tape instead of reinforcing tape. Joint safe tape is more elastic.

Curing: Complete curing takes 2 days but foot traffic and carpet and vinyl laying is usually possible after 24 hours. Do not attempt to lay vinyl sheeting over until the Matrix is dry; this will take at least 1-4 days curing under normal conditions.

COVERAGE: A unit of Matrix is 25kg of powder and 5 litres of emulsion. This has a mixed volume of 18 litres. This unit will cover approximately 6 square metres at 3mm thickness. Depths greater than 5mm should be applied in two or more layers. If building thicker layers it is best to apply one thick coat, allow to dry then apply a fine, even finishing coat.

Flushing

Flushing a floor to smooth imperfections often averages 0.5mm thickness. This unit will cover 30m².

CLEAN UP: All tools and mixing equipment should be cleaned with water immediately after use. Matrix has excellent adhesion when dry and is difficult to remove.