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Prime *it* MULTI-SURFACE PRIMER

Primer for porous and non-porous substrates

TECHNICAL DATASHEET

- Moisture tolerant
- Enhances adhesion
- Reduces pinholing
- Coverage: 200m² at 3:1 dilution
- Can be used as a curing agent
- Pigmented pink for coverage control



5L

INFORMATION

UltraFloor Prime IT Multi-surface Primer (MSP) is a moisture tolerant, water based polymer primer, sealer and bonding aid suitable for porous and non-porous substrates. UltraFloor Prime IT MSP is a pink liquid and dries to give a pink film.

USES

UltraFloor Prime IT MSP stabilises and consolidates the substrate surface and reduces the absorbency, enabling subsequent materials to flow, cure and bond successfully. It is recommended for use prior to the application of smoothing underlayments and between layers when multilayer applications are being carried out to minimise pinholes and maximise interlayer adhesion.

UltraFloor Prime IT MSP can also be used as a curing agent for cementitious based products, diluted 1:1 with water.

SUBFLOOR PREPARATION

All surfaces must be dry and in a sound and stable condition free from contaminants that may prevent adhesion such as dust, oils, grease, surface laitance, water soluble adhesive residues and weak smoothing underlayments etc. Smooth dense surfaces must be roughened by mechanical scabbling to enhance the key. Subfloors should be tested in accordance with BS8203 to ensure a moisture reading of less than 75% RH should be achieved. Where this has not been attained or where there is uncertainty that the subfloor design incorporates a DPC then UltraFloor DPM IT or UltraFloor Suppress IT must be applied (see relevant UltraFloor product technical datasheet).

UltraFloor recommend consultation with subfloor preparation equipment suppliers to ensure correct equipment for the substrates is selected. All substrates must be at a minimum temperature of 5°C before, during and after application of the primer to ensure film forming and bonding is achieved.

MIXING

Shake bottle thoroughly before use. Always use a clean mixing bucket and clean water.

APPLICATION

Absorbent Subfloors (concrete, sand & cement, plywood etc):

UltraFloor Prime IT MSP should be applied using a brush or roller and scrubbed well into the surface avoiding pooling. The number of coats required will be subject to the substrate (see below). Please refer to the coverage rate chart overleaf for guidance. Drying rates will be directly linked to subfloor absorbency and ambient conditions including temperature and humidity. Always allow the product to dry to a pink film. Under good drying conditions, UltraFloor Prime IT MSP applications will be ready to receive further materials after 1-2 hours.

Non-absorbent Subfloors (power floated concrete, epoxy resin damp proof membranes, steel mezzanine decks, plywood and asphalt etc):

UltraFloor Prime IT MSP should be applied neat as a single coat, using a brush or roller. Apply to give a thin uniform coverage with no pooling of primer. Ensure a complete overall application is achieved. Once dry, the primer will exhibit a light tack and is ready to receive smoothing underlayments.

Keep the area free from dust or contamination during the drying time and ensure further products are applied within 36 hours. Ambient conditions should be maintained above 10°C during this time. Drying rates will be directly linked to ambient conditions including temperature and humidity. Always allow to dry to a pink film. Under good drying conditions, UltraFloor Prime IT MSP applications will be ready to receive further materials after 1-2 hours.

SUBSTRATES

Power Floated Concrete: Should be treated as non-porous. Mechanically abrade (shotblast or scarify) to remove surface hardeners and expose the cement/aggregate. Apply UltraFloor Prime IT MSP neat in a thin uniform coating, allowing it to dry fully (usually 1-2 hours).

Tamped or Pan Floated Concrete: These should be treated as porous, and any laitance or weak material should be mechanically removed to ensure a sound, dry and dust-free surface. Apply UltraFloor Prime IT MSP diluted 3:1 with clean water and allow to dry fully (usually 1-2 hours). Apply a second coat diluted 1:1 with clean water allowing it to dry to a pink film (usually 1-2 hours).

Sand/Cement Screeds: Weak, friable or damaged screed should be uplifted and repaired. Apply UltraFloor Prime IT MSP diluted 3:1 with clean water and allow to dry fully (usually 1-2 hours). Apply a second coat diluted 1:1 with clean water allowing it to dry to a pink film (1-2 hours).



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Existing Smoothing Underlayments: Remove adhesive residues and treat as an absorbent floor. Apply UltraFloor Prime IT MSP diluted 3:1 with clean water and allow to dry fully (1-2 hours). Apply a second coat diluted 1:1 with clean water allowing it to dry to a pink film (1-2 hours).

Calcium Sulphate/Anhydrite/Hemihydrate Screeds: Mechanically remove any laitance and provide a sound, clean, dry and dust-free surface. The relative humidity within the subfloor must read below 75% RH prior to the application of a barrier primer (damp proof membranes or moisture vapour suppressants are not recommended). These types of screeds often incorporate warm water underfloor heating systems (see relevant manufacturers' technical datasheet) which can be used, along with dehumidifiers, to speed up the drying process. Manufacturers normally suggest this can be conducted after 7 days minimum curing. Apply UltraFloor Prime IT MSP diluted 3:1 with clean water and allow to fully dry overnight. Apply a second coat diluted 1:1 with clean water allowing it to dry to a pink film (usually 1-2 hours).

Surface DPM and MVS: These are considered as non-absorbent substrates. Applications should be carried out within 12 hours of Ultra Floor DPM IT and/or UltraFloor Suppress IT application (see relevant UltraFloor product technical datasheet).

Flooring Grade Plywood: Plywood (including newly installed e.g. SP101) must be of flooring grade and mechanically fixed to a sound strong base of 15mm thickness or greater. Plywood must be sealed on the underside and along all edges to ensure moisture absorption from beneath is kept minimal. For thinner flooring grade plywood subfloors contact UltraFloor's technical department. Plywood absorbency differs depending on the nature of the surface veneer. Normally a diluted coat of UltraFloor Prime IT MSP (3:1 with clean water) is recommended. For dense veneers of very low absorbency apply UltraFloor Prime IT MSP neat in a thin uniform coating.

Cementitious Backer Boards: These are not usually highly absorbent so a single primer application is suitable. Apply a coat of primer diluted 5 parts water to 1 part primer. Allow to dry completely.

Flooring Grade Asphalt: New asphalt must be left for a minimum of 7 days and degreased to remove surface bloom. Existing asphalt should be assessed for cracks. If cracks are present they need to be repaired to give a continuous strong subfloor. The use of epoxy resins bulked out with sand is normally sufficient. Do not use on roofing grade or tarmac substrates.

Terrazzo/Granolithic Ceramic Tiles: These must be securely bonded, and any surface treatment should be mechanically removed. A good mechanical key should be ensured by abrading the surface using a Surface Texturing & Grinding (STG) machine (a diamond disc is recommended). These subfloors can be treated as low porosity and primed using UltraFloor Prime IT MSP neat.

Non-flexing Steel Floors (e.g. mezzanine decks): UltraFloor Prime IT MSP is only suitable for use on internal steel floors that are rust proof. Floors must be mechanically secure with no deflection between adjacent panels of steel. Ensure any release agents or oils are removed. Mechanically abrade using a suitable mechanical machine (STG or shot blast) or a wire brush to give an abraded shiny corrosion free surface and remove all excess traces of metal.

Existing PU, Epoxy Resin and Painted Floors: Mechanically abrade the surface using a suitable mechanical machine (STG or shot blast) to give a suitable textured surface. This will also help identify any weak or poorly bonded paint which must be removed.

Existing Adhesive Residues: Use only on moisture tolerant adhesives. Best practice is always to remove as much friable or loosely bonded adhesive as possible, leaving only a thin firmly bonded film. Remove high spots of adhesive.

TECHNICAL DATA	
Ready to receive smoothing underlayments	1-2 hours (at 20°C)
Packaging:	5 litre bottle

USE AS A CURING AGENT

Dilute UltraFloor Prime IT MSP 1:1 with clean water and transfer into a good quality spray bottle. Spray 8-10 inches away from surface immediately upon completion of laying cement materials, to provide an even, continuous film. Do not apply by brush or roller, do not mix with other curing compounds.

COVERAGE RATES		
Porous	Coverage per 5 litre bottle	Consumption per litre of primer
1:1 dilution	70-100m ²	14-20m ²
3:1 dilution	140-200m ²	28-40m ²
Non-porous		
Neat	25-50m ²	5-10m ²
Curing Agent		
1:1 dilution	30-40m ²	6-8m ²

Coverage will depend on dilution rates or primer and also texture of subfloor. The rates above are based on a smooth subfloor at the given dilution.

CLEANING

Tools should be thoroughly cleaned in water to remove excess materials immediately after use.

STORAGE

Store in a closed original container at temperatures between 5°C and 30°C and out of direct sunlight and frost.

SHELF LIFE

Shelf life is 12 months from manufacture in above conditions.

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HEALTH, SAFETY AND ENVIRONMENTAL

Please ensure that appropriate PPE is used when preparing, mixing and applying products. Always wash your hands before consuming food and make sure that materials are kept safely out of reach of children and animals. Please dispose of packaging and waste responsibly and in accordance with local authority requirements. A full material datasheet relating to this product is available from instarmac.co.uk.

QUALITY ASSURANCE

All products are manufactured in a plant whose quality management system is certified/registered as being in conformity with BS EN ISO 9001, ISO 14001, and OHSAS 18001. Our products are guaranteed against defective materials and manufacture and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept responsibility arising from the application or use of our products because we have no direct or continuous control over where and how projects are used. All products are sold subject to our conditions of sales, copies of which may be obtained upon request.

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