

M318 WATER-BASED PRIMER



Technical Data Sheet

PRODUCT DESCRIPTION

M318 Water-Based Primer is a water-based acrylic primer used for porous substrates such as concrete slabs, cement mortar, gypsum-based underlayment. It effectively seals pores, reduces absorbency, and improves the adhesion between the substrate and subsequent layers. After applying the primer, self-leveling applications can proceed.



FEATURES

- Easy application and low odor
- Creates a perfect bonding environment for mortar screeds and leveling compounds
- Economical and practical solution for both small and large-area applications

SUITABLE SUBSTRATES

- Concrete Slabs
- Cement Mortar Screeds
- Gypsum-based Underlayment (2-coats are required before applying cementitious self-leveling)

SUBSTRATE PREPARATION

1. The substrate must be porous, compliant, structurally sound, clean, dry and free from contaminants such as grease, oil, dirt, dust, curing compounds, waxes, sealers, efflorescence, or any other foreign matter that may act as a bond-breaker.
2. M318 Water-Based Primer is not a moisture-barrier. Concrete must be fully cured for 28 days old and treated for any hydrostatic moisture, rising damp or construction moisture as required prior to the installation.
3. Nonabsorbent concrete surfaces, existing glazed tile, terrazzo, or polished stone need to be roughened or scarified to achieve the appropriate porosity for subsequent applications. If not able to achieve the appropriate porosity, use M320 Non-absorbent Primer or M350 General Primer instead.
4. Porous plywood and OSB including those under resilient flooring must be structurally firm and sound. Any loose areas or deflection must be addressed prior to installation of the levelling compound.

DILUTION & APPLICATION

The dilution ratio of M318 Water-Based Primer and its application is dependent on the substrate's porosity.

■ FOR MEDIUM POROSITY SUBSTRATE:

Dilute M318 Water-Based with water (1:1 ratio) mix and apply with a Roller Sleeve or soft bristle broom. Ensure the primer is fully dry and is worked into the surface before applying self-leveling compound.

■ FOR HIGH POROSITY SUBSTRATE TREATMENT:

Dilute M318 Water-Based with water (1:3 ratio) for the first coat and apply with a Polyester Roller Sleeve or soft bristle broom. Ensure the first coat is dry before applying the second coat and that the primer is worked into the surface. Then dilute M318 Water-Based with water (1:1 ratio) for the second coat and apply again. Ensure the second coat is fully dry before applying self-leveling compound.

LIMITATIONS

1. Use only when the substrate and ambient temperatures are between 10°C and 35°C.
2. Avoid primer freezing and thawing.
3. Use for interior installations only.
4. Substrates MUST be mechanically prepared to achieve the correct CSP, chemical etching is NOT an acceptable method.
5. Subfloors must be dry and correctly primed where required to ensure a successful installation. Any full penetrations that are direct-to-earth must be protected by a compliant and effective damp-proof membrane.
6. M318 Water-Based Primer is not a moisture-vapor barrier. If no further application is performed within 24 hours after M318 Water-Based Primer has dried, a second coat of M318 Water-Based Primer is required.
7. Do not use M318 Water-Based Primer as an admixture to Morient cement-based products.
8. Surfaces primed with M318 Water-Based Primer should be allowed to dry (minimum 1 to 2 hours and maximum 24 hours). For low temperatures, damp or humid conditions, and non-porous substrates, always allow a minimum of 2 hours.

PACKAGING & STORAGE/SHELF LIFE

- 5KG or 20KG Pail
- Shelf life: At least 12 months from production date when properly stored in a cool and dry place; protect from direct sunlight exposure and freeze-thaw.

TYPICAL PHYSICAL PROPERTIES

Color	Cream White
Density	1.01 kg/L
Consumption	100-150 g/m ² (Regular Absorbent Substrate), 150-250 g/m ² (Highly Porous Substrate)
Solid Content	>18%
Dry Time	1-2 hours

NOTE: Above statistics are indicative only and may vary according to temperature, humidity, substrate porosity, application requirement and site conditions.

SAFETY INFORMATION

PLEASE READ THE SAFETY DATA SHEET THOROUGHLY PRIOR TO APPLYING THE PRODUCT

Ensure suitable PPE (Personal Protective Equipment) such as protective gloves, respiratory, face, skin and eye protection are worn at all times while handling this product. Avoid breathing dust, fumes, gas, mist, vapors or spray. Avoid contact with eyes and skin. If this product comes in contact with skin, rinse with soap and plenty of water. If the product comes in contact with eyes, wash out immediately with water. Ensure adequate ventilation during mixing and application. Wash contaminated clothing before reuse. Keep out of the reach of children. Call a doctor if you feel unwell. Safety Data Sheet (SDS) is available on request.

TECHNICAL SERVICES

Adhere to all product limitations, and if unsure about a particular application, contact Morient Mortar at:

USA: (908) 809-5672

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