Universal Floor Primer

Smet Universal Floor Primer is a concentrated styrene acrylate dispersion which can be diluted with water and is intended for use with screed products. The primer does not contain ammonia. It offers good alkali resistance and adhesion properties in both wet and dry environments.

- Highly Concentrated - Economical
- Suitable for sealing Calcium Sulphate Floors
- Ease of application
- Waterproof
- Can be used on virtually any substrate

Field Of Application

The primer can be used for priming (pre-treating) all substrates prior to application of levelling compounds, screeds and adhesives. Smet Universal Floor Primer is designed for priming (sealing) dry calcium sulphate floor screeds prior to installation of tiles using cement based tile adhesives.

Substrate & Preparation

Substrates to be primed should be examined for contamination, deterioration, surface roughness, suction and strength. The substrate should be dry, clean and free from dust, grease or other impurities which might prevent the primer from adhering to the substrate. For correct film formation the substrate temperature should not fall below +6°C. For best results the temperature of the work area should be between +10 and +15 °C.

Working Instructions

Light ventilation in the work area is necessary, however windows and openings must be closed sufficiently to avoid draughts during and after application. Indoor and floor temperature should exceed +10˚C during and after application and for one week after that. The relative humidity of the ambient air must not exceed 70% to allow efficient drying of the primer. Insufficient drying time or poor film formation due to low temperature and/or high humidity, may result in pinholes in the levelling compound or screed applied.

Sealing Calcium Sulphate Screeds

Moisture Content – The screed should be dry. Unlike cement based materials which can remain strong even when wet, gypsum based materials gain strength by a process of crystallization and must be fully dry before covering. Moisture content can be checked with a carbide bomb moisture meter, a reading of less than 0.5% moisture indicates the screed is dry. When checked by using a hair hygrometer, a reading of < 75% after 48 hours indicates the screed is dry. Apply 1 No. coat of primer mixed 1 : 5 with clean water, followed by a second coat (1:3 with clean water) when the first coat is touch dry (normally after 3-5 hours, or overnight depending on site conditions) by brush or suitable sprayer. Apply cement based tile adhesive or screed when second coat is dried tacky.

It is essential sufficient film formation is achieved in order to completely seal the substrate. Porous Calcium Sulphate Screed substrates may require three or more coats of primer in order to achieve sufficient film formation.

Application of the primer onto Calcium Sulphate Screed substrates >0.5% CM or insufficient film formation of the primer will lead to formation of ettringite, causing the cement based tile adhesive or screed to de-bond.

Application

The primer solution should be spread evenly over the prepared floor surface using a soft brush or spray, avoiding ponding and allowed to become touch dry (3-5 hours under normal or overnight depending upon conditions). After application and while the primer is still fresh, it should be lightly brushed to ensure a complete uniform film has been applied.

Mixing

Smet Universal Floor Primer should be diluted with clean water according to the ratios given in the mixing guide.

Restrictions

During application the temperature must not drop below +10 °C or rise above +30°C.

Cleaning

Once dried, primer is difficult to remove, thus care should be taken to clean tools quickly before the primer dries.

Storage

Protect against sub-zero temperatures. In original sealed containers, material can be stored for at least 12 months.

Please note: No responsibility can be taken by Smet Building Products Ltd. for any defects or deficiencies in the completed work arising from any failure to comply with recommended practice in applying roducts or resulting from any failure to comply with the manufacturer's instructions or other instructions issued in respect of other elements of the system being installed.

Mixing Guide

	Dilution Primer : Water	Coverage L/m² Undiluted	No. Of Coats
Calcium Sulphate, prior to tiling	**1st coat 1 : 5** **2nd coat 1 : 3**	**0.2 – 0.4**	**2 ***
In Situ Concrete	**1 : 3**	**0.15**	**1**
Dry Porous Surface	**1st coat 1 : 5** **2nd coat 1 : 3**	**0.2 – 0.4**	**2**

* Porous Calcium Sulphate Screed substrates may require three or more coats, in order to achieve sufficient film formation. Please refer to paragraph: Sealing Calcium Sulphate Screeds.

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