

UNIVERSAL BASE COAT

Coloured undercoat

EVENES OUT SURFACES AND FILLS DEFECTS

IMPROVES COVERING POWER



WHERE TO USE

- Base layer for new and well-cured mineral substrates, before applying thin-layered plasters.
- Base layer on old mineral and resin-based plasters and old base coats, provided they adhere well, before applying layered plasters from MAPEI range.
- Base layer on old and well-adhered not chalking paintworks or old base coats before applying paints from MAPEI range.
- Base coat layer coloured/tinted in the same colour as the final layer, to help covering of the final layer of paint or plasters in bright, lively or transparent colours or with partial/moderate covering power.

Some application examples

Universal Base Coat is used to prepare the base layer before applying the final colouring coat, to regulate absorption of the substrate, improve bonding of paint or plaster to substrate, facilitates plaster application.

Universal Base Coat has renovative properties, thanks to the latest technology, it's possible to use it on existing coatings: mineral, acrylic, silicate, silicone, elastomeric. This makes it suitable for renovation of existing thermal insulation systems, paintworks or plasters needed to be refreshed or repaired.

Use of **Universal Base Coat** in the same colour as finishing material makes it easier to uniform colour of the surface, particularly in the case of plaster with fine grain sizes and

"woodworm" type textures. When applied in white, or in a colour similar to the final coat, it helps to integrate the final coat particularly when applied colours significantly differ from the surface colour.

Microfiller from **Universal Base Coat** helps to even out the small unevenness, facilitates adhesion properties between plaster coating and substrate during the application, improves bonding strength between plaster coating and substrate.

TECHNICAL CHARACTERISTICS

Universal Base Coat is a coloured resin-based undercoat in water dispersion, with micro-granular quartz and selected fillers and additives to enhance resistance to fungi and algae. It is used to even out the absorption of the substrate and promote bonding of successive coats of paint and thin-layered plasters from the MAPEI range.

Universal Base Coat works in synergy with paint or thin-layered finishing material, to increase resistance to fungi and algae thanks to BioBlock® technology.

Surfaces treated with **Universal Base Coat**, gain a type of finish, which makes it easier to apply layered finishing materials, and even distribution over the entire surface.

Universal Base Coat is available in a wide range of colours, created by means of ColorMap® automatic colouring system.

RECOMENDATIONS

- Suitable for use on walls and ceilings
- Apply only on dry and cured substrates
- Use for mineral and resin-based plasters
- Apply at temperatures between + 5°C to + 35°C
- Apply when relative humidity is below 85%
- Do not apply if rain is forecast, in windy weather or under direct sunlight, in this case use protective nets
- Please refer to the "Safety instructions for preparation and application".

APPLICATION PROCEDURE

Preparing the substrate

The substrate for plastering should be well bonded, sound, clean and dry. The surface should be even, free of traces of dust, oils, paints and other coatings that could have impact to the adhesion. We recommend to wash the old renders with water in the first place. Fresh plasters or fillers should be completely bonded and cured. Any uneven areas should be repaired with Mapetherm mortars and small cracks filled it with **Mapeflex AC4**.

Preparation of the product

Universal Base Coat may be used as is, or diluted with 5% of clean water. Before application make sure that the product is well blended, and use a low speed drill if possible for blending.

Application

Apply **Universal Base Coat** using conventional techniques with a brush, a roller or by spraying. A single coat of **Universal Base Coat** is usually sufficient to prepare the substrate. However, if the substrate is particularly uneven, a second coat may be applied after 12-24 in function of humidity and temperature conditions, provided the first one is dry. Protect from unfavorable atmospheric conditions for at least 12 hours.



CLEANING

The remains of **Universal Base Coat** clean before it dries with water otherwise it needs to be removed mechanically.

CONSUMPTION

Consumption is heavily influenced by the absorption, the roughness of the substrate, by imperfections on the surface, according to the application technique used. Under normal conditions, consumption is generally 0.2 ÷ 0.3 kg/m² per coat.

PACKAGING

Universal Base Coat is available in 20 kg and 5 kg plastic drums.

STORAGE

24 months if stored in a dry place, away from sources of heat at a temperature of +5°C to +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	pasty liquid
Colour:	white, from the MAPEI colour chart range or in various colours obtained using the ColorMap® automatic colouring system
Density (EN ISO 2811-1):	approx. 1,55 g/cm ³
Dry solids content (EN ISO 3251):	approx. 67 %
Brookfield viscosity:	approx. 16.000 mPa·s (rotor 6- 10 rpm)

APPLICATION DATA (temp. +23°C and 50% R.H.)

Dilution ratio:	ready to use or 5% of water
Waiting time before painting over:	12-24 hours in function of humidity and temperature conditions, and in any case, only when the previous layer is completely dry
Application temperature:	from +5°C to +35°C
Consumption:	0,2-0,3 kg/m ² (per coat)

FINAL PERFORMANCES

VOC content of ready-mixed product (white) (European Directive 2004/42/EC):	≤ 20 g/l
VOC content of ready-mixed product (coloured) (European Directive 2004/42/EC):	≤ 30 g/l
Vapour diffusion resistance coefficient) (EN ISO 7783):	600 μ
Resistance to passage of vapour relative to a 0.15 mm-thick dry layer S _D (EN ISO 7783):	0,09 m
Capillary action water absorption coefficient W ₂₄ (EN 1062-3):	0,15 [kg/(m ² ·h ^{0,5})]
S _D x W=0,09 x 0,15 [kg/(m ² ·h ^{0,5})]	The value of S _D ·W is less than 0.1, therefore Universal Base Coat respects Kuenzle's Theory (DIN 18550)

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com.

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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