



TECNOCEM CAL FINE

Breathable fine finishing mortar for finishing lime mortars
or cementitious waterproofing coatings



BREATHABLE
WATER VAPOUR
PERMEABLE

EXTERIOR



INTERIOR



A1

NON-COMBUSTIBLE
REACTION TO FIRE EN 13501-1

SUBSTRATES

Existing cement or lime renders and base coats, perfectly level and flat, with a coarser texture than the finish to be applied. Substrates must be sound, clean and free from dust, paint residues, efflorescence, loose particles and grease. Do not apply directly onto brick, concrete block or any other substrate that has not been levelled beforehand.

CHARACTERISTICS

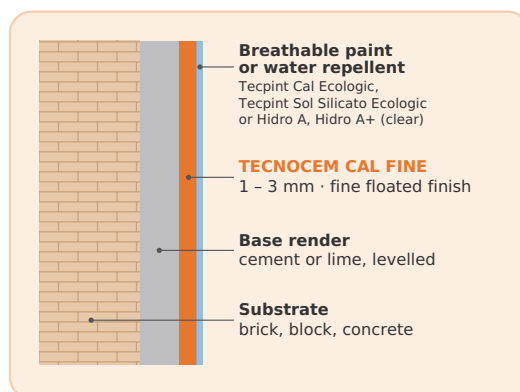
- Mortar based on calcium hydroxide, fine aggregates of controlled particle size and special additives.
- Cement-free formulation.
- Compatible with weak and deteriorated substrates.
- Salt-free composition.
- Water vapour permeable: allows the substrate to breathe.
- Thin-coat finish: 1 to 3 mm per coat.
- Fine floated finish with a natural appearance.
- Excellent workability and easy application.
- Fine particle size (max. 0.5 mm).
- Reaction to fire Euroclass A1 (non-combustible).
- Standard colour: white.
- Suitable for interior and exterior use.
- Ideal for the refurbishment of façades and historic buildings.
- Tools can be cleaned with water.

CE

TECNO PRODIST
EN 998-1
GP
GENERAL PURPOSE
RENDERING / PLASTERING MORTAR

FINISH

Decorative fine floated or smooth finish. Externally, protect with a water repellent or breathable lime or silicate paint once cured



Application diagram: render system on a wall with base render



TECNOCEM CAL FINE

IDEAL FOR

- Decorative fine floated finishes on masonry, walls, ceilings and columns, both internally and externally.
- Thin-coat finishing over existing coarser-textured renders, such as cement mortars or lime mortars.
- Refurbishment and restoration of façades in historic areas and listed buildings, thanks to its compatibility with weak substrates and its breathability.
- Shopping centres, hotels, residential developments and new-build projects in general.
- Levelling coat with a fine, smooth finish.

ON-SITE APPLICATION

SUBSTRATE PREPARATION

Apply onto perfectly level and flat substrates, previously trued with a cement or lime render. Where the base coat is a lime mortar, allow 5 to 7 days' curing before applying TECNOCEM CAL FINE.

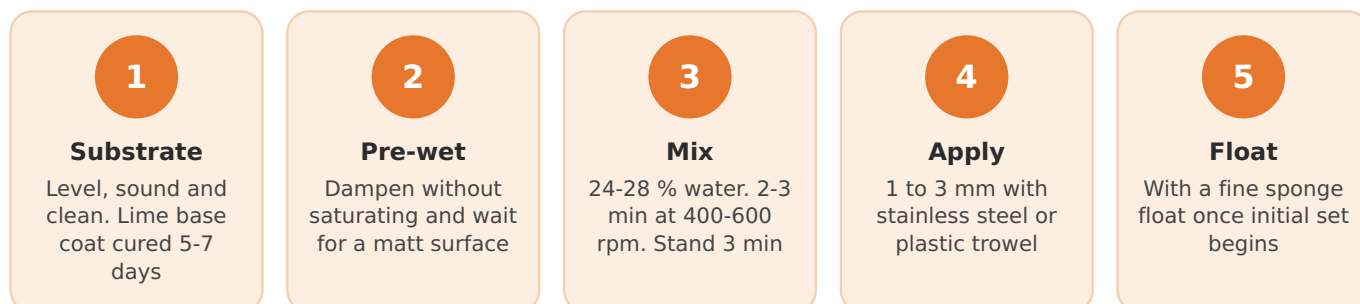
Do not apply directly onto brick, concrete block or unlevelled substrates. The surface must be sound and clean, free from dust, paint residues, efflorescence, loose particles, grease or any other substance that could impair the adhesion of the mortar.

Old substrates must be repaired: **application onto deteriorated substrates without prior repair is strongly discouraged.** Poorly bonded or friable areas must be removed back to a sound background, and any irregularities must be made good with a suitable render before applying the fine finish.

PRE-WETTING THE SUBSTRATE

Before applying TECNOCEM CAL FINE, lightly dampen the surface with water, avoiding puddles, and begin application once the surface takes on a matt appearance. If the surface dries out before application, dampen it again.

In high temperatures, strong wind and/or low relative humidity, thoroughly pre-wet the substrate and use RESIPRO PLUS in the gauging liquid (see "Mixing").



TECNOCEM CAL FINE application process



TECNOCEM CAL FINE

DIRECTIONS FOR USE

MIXING

One 25 kg bag of TECNOCEM CAL FINE requires 6.0 to 7.0 litres of clean water (24-28 % by weight), depending on ambient conditions and the desired consistency. Pour the required amount of water into a clean container and gradually add the product, mixing by hand or preferably with a low-speed electric drill (400-600 rpm) fitted with a paddle mixer for approximately 2 to 3 minutes, until a homogeneous, lump-free and air-bubble-free mix of stiff consistency is obtained.

Allow the mix to stand for 3 minutes, then remix briefly for a few seconds before starting application.

Optionally, for improved adhesion, strength and curing of the mortar, a mixture of RESIPRO PLUS and water in a 1:3 ratio (by volume) can be used as the gauging liquid.

APPLICATION

Apply a 1 to 3 mm coat of TECNOCEM CAL FINE using a stainless steel or plastic trowel. Once the mortar begins its initial set, float with a fine sponge float until the desired finish is achieved. In hot and/or windy conditions, lightly dampen the surface to make floating easier.

When used as a fine finishing coat, smooth the surface in several passes with a stainless steel trowel until a perfectly smooth finish is achieved.

For external applications, after 5 to 7 days' curing depending on ambient temperature and with the surface thoroughly dry, apply a clear siloxane-based water-repellent treatment to protect against driving rain and weathering, such as HIDRO A or HIDRO A+, or use a breathable paint such as TECPINT CAL ECOLOGIC or TECPINT SOL SILICATO ECOLOGIC.

APPLICATION CONDITIONS

The optimum working temperature range is 10 °C to 30 °C. Do not apply when substrate and/or air temperatures are below 5 °C, or if lower temperatures are forecast within 24 hours of application. Do not apply onto frozen or waterlogged surfaces. Avoid external application if rain is forecast within 24 hours, and avoid direct sunlight in extreme heat.

CURING

In high temperatures, low relative humidity and/or wind, prevent the mortar from drying out too quickly by keeping it damp for at least 24 hours after application, spraying it with water without washing it out. This may reduce the final sheen.

Allow a minimum curing time of 5 to 7 days (20 °C, 50 % RH) before applying water-repellent treatments or breathable paints. Lower temperatures and/or higher relative humidity will extend the curing time.

CLEANING OF TOOLS

Clean all tools and equipment with water immediately after use. Once hardened, the product can only be removed mechanically.

PACKAGING

TECNOCEM CAL FINE is supplied in 25 kg bags. Available in standard white.



TECNOCEM CAL FINE

TECHNICAL DATA

PRODUCT CHARACTERISTICS	
CE marking	EN 998-1 · GP
Appearance and colour	White or pigmented powder
Maximum particle size	0.5 mm
Bulk density of dry mortar	1.30 ± 0.10 g/cm ³
Mixing water (% by weight)	26 ± 2 %
Optional gauging liquid: RESIPRO PLUS : water (vol.)	1 : 3

APPLICATION AND CURING CONDITIONS	
Minimum application temperature (substrate and air)	> 5 °C
Optimum working temperature	10 – 30 °C
Pot life (20 °C, 50 % RH)	25 – 35 min
Waiting time before water repellents or paints (20 °C, 50 % RH)	5 – 7 days
Full cure (20 °C, 50 % RH)	28 days

HARDENED MORTAR PROPERTIES	
Dry bulk density of hardened mortar (EN 1015-10)	1.65 ± 0.10 g/cm ³
Adhesion and fracture pattern (EN 1015-12)	> 0.3 N/mm ² · FP: B
Capillary water absorption (EN 1015-18)	Category W0
Water vapour permeability (EN 1015-19)	μ < 20
Reaction to fire (EN 13501-1)	Class A1

CONSUMPTION / THICKNESS	
Minimum – maximum thickness per coat	1.0 – 3.0 mm
Consumption per m ² per mm thickness	1.25 kg
Approx. coverage per 25 kg bag at 1 mm	≈ 20 m ²
Approx. coverage per 25 kg bag at 3 mm	≈ 6.7 m ²

Consumption may vary depending on the texture, porosity and condition of the substrate, as well as the application method. A trial area on site is recommended to determine the exact value.

USEFUL INFORMATION

The manufacturing process of the TECNOCEM range is batch-controlled, ensuring full traceability in the event of any incident. The quality system applied includes the in-house design of each product and inspections throughout production, covering both the raw materials used, to guarantee consistent manufacturing, and the finished product.

- Non-toxic product, but abrasive in composition. Avoid contact with skin and eyes, and avoid inhaling dust.
- Wear protective gloves and safety goggles when handling, mixing and applying the product.
- In case of skin contact, wash the affected area with soap and water. In case of contact with eyes, rinse with plenty of clean water without rubbing; if irritation persists, seek medical advice.
- Comply with current health and safety at work regulations.



TECNOCEM CAL FINE

STORAGE

- Maximum recommended shelf life: twelve months in the original, unopened and undamaged packaging.
- Store in a cool, dry place, protected from moisture, frost and direct sunlight, at temperatures above 5 °C.
- The product and its packaging must be disposed of in accordance with current legislation; this is the responsibility of the end user.

For further information on protective measures and first aid, refer to the product Safety Data Sheet.

REMARKS

- Do not add cement, lime, additives or aggregates that may affect the properties of the product. Do not mix with any other material, as it will lose its technical properties.
- Observe the specified mixing water proportions.
- Do not use leftovers from previous mixes to prepare a new batch.
- Do not apply directly onto brick, concrete block or other substrates that have not been levelled beforehand.
- Observe the recommended consumption and minimum and maximum thicknesses. Do not exceed the maximum thickness of 3 mm per coat.
- Do not apply onto water-repellent-treated substrates, bituminous materials, metal, timber, gypsum or resins.
- Do not apply externally if rain or frost is forecast within 24 hours of application. Do not apply onto frozen or waterlogged surfaces.
- Substrate and ambient temperature: minimum + 5 °C. Optimum working range: + 10 °C / + 30 °C.
- Use the product within its pot life. Beyond this time, its properties may be adversely affected.
- A prior inspection of the condition of the substrate is essential before each application.
- Please read the technical data sheet before use to ensure proper use and correct application of the product.
- The data given in this technical data sheet are for guidance only and are not binding. They were obtained under normal laboratory conditions on standardised substrates and may vary depending on site conditions (substrate absorption, applied thickness, temperature, ambient humidity, etc.). Consumption, dosage and coverage should be determined on the actual site where the product is to be used. Slight deviations above or below the stated ranges will be accepted at our internal technical discretion and will not affect the quality or performance of the final product.
- Users' working conditions are beyond our control.
- The product must not be used for purposes other than those specified. Strict adherence to the application recommendations is advised.
- For any application not covered in this technical data sheet, or for any queries, our technical sales team is at your disposal to advise you.



MCERT
N.º de Certificado: 1508
ISO 9001:2015



MCERT
N.º de Certificado: 1502
ISO 14001:2015