

*A new-generation one-coat, through-coloured mineral render for use with weber.therm XP external wall insulation system*

# weber.therm M1



## About this product

**weber.therm M1** is a new-generation factory-batched, polymer-modified, through-coloured, lightweight mineral render for a one coat application on to external wall insulation with meshcloth incorporating a scrape or dry-dash finish.

## Technical data

### weber.therm XP – external wall insulation system

Insulation Board	Reinforcement	Fixing	1st Coat	2nd Coat	Finish
Plain EPS	Meshcloth	Mechanical	<b>weber.therm M1</b>	N/A	Dry-dash, scraped texture, light ashlar marking or spray roughcast
Plain MFS					
Plain PHS					

## Uses

- A new generation one-coat lightweight render, specifically designed and manufactured for a one coat application on to external wall insulation with meshcloth

## Constraints

The quality of application of this material depends on suitable operative skills and product familiarity.

Restrictions on weather conditions during application and curing must be respected.

Sound trade practices and printed instructions must be followed.

Good access and appropriate protection must be provided.

## Features and benefits

- ▲ One coat machine application, significantly, reducing the 'programme of works' and all associated costs
- ▲ Suitable for spray or hand application
- ▲ Through colour, thick mineral render for low maintenance and durability
- ▲ No lost time waiting for undercoats to cure
- ▲ Quality assured raw materials
- ▲ Ready mixed – only the addition of potable water required on site for ease of use
- ▲ Supported by comprehensive technical and architectural services

## Colours

12 standard and 24 standard special colours.

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## Preparation

Ensure insulation is securely fixed, in plane, with no edge protrusions.

## Mixing and application

**weber.therm M1** has been designed for spray application onto External Wall Insulation. Refer to **Weber Render Solutions** handbook for examples of suitable pumps.

Mix 20kg of **weber.therm M1** with 4.25 – 5.0 litres potable water. If the material has been allowed to stand for 5 – 10 minutes, it may be necessary to remix (do not add water) immediately prior to application.

### Scrape texture finish

Apply a first pass approximately 6 – 7 mm thick. Lay in the meshcloth and when the render begins to take up, apply a further 8 – 9 mm forming a minimum 15 mm monolithic render coat. Rule level and allow to set.

When **weber.therm M1** is 'green' (set but not fully hardened) it should be scraped in circular motions using a scraping tool. It is essential that this is done carefully and evenly, ensuring all laitance is removed and that no part is missed. The finished render thickness should be 12 mm (minimum).

Thoroughly brush down the surface of the scraped finish using a soft bristle brush.

### Set time/scrape time

Estimating the setting and scraping time of a render is not an exact science. There are many factors that affect the setting time of a render including temperature, prevailing winds, water addition, thickness of coat and type of substrate i.e. high or low suction. The experience, skill and product knowledge of the applicator will play an important part in determining when to apply the render, to ensure the scraping time fits in with his working practice.

**weber.therm M1** is generally a 'next day' scrape render. As with all mineral renders, in low temperatures setting times will be

longer than in warmer periods. In hot weather or in strong drying winds if the render is applied early in the morning it will be possible to scrape back in the late afternoon on the same day of application.

**weber.therm M1** will set and gain hardness in a similar manner to all conventional mineral renders and in common with all other mineral renders, newly applied render must not be allowed to dry out too quickly i.e. the cement must be allowed to cure and fully hydrate. Therefore in extreme hot weather conditions it may be necessary to protect the newly applied render from the sun and drying winds. Refer to the BS 5262 *Code of Practice for External Renderings*.

### Ashlar marking

The **weber.therm M1** is applied as above, but with an overall finished thickness of 15 mm. Light ashlar marking, no more than 2 – 3 mm deep, can be cut in the surface using a **Weber** square-edged cutting tool.

### Dry dash finish

Apply the **weber.therm M1** to a thickness of 6 mm. Lay in the meshcloth, and when the render begins to take up, apply a further 6 mm forming a 12 mm monolithic render coat. Flatten-off and dry dash in the normal manner.

### Spray roughcast finish

Apply a first pass approximately 6 mm thick. Lay in the meshcloth and when the render begins to 'take up', apply a further 6 mm, forming a 12 mm monolithic render coat.

Rule to achieve a level, flat surface.

Once again, when the render begins to 'take up', apply a light spray-textured pass to achieve an overall thickness, maximum 15 – 16 mm.

### Good practice

Do not apply:

- If frost is forecast within 24 hours of use
- In damp/wet conditions
- In temperatures below 5°C or above 30°C
- On elevations in direct sunlight or where the substrate is hot

To ensure colour consistency, the material required for complete and adjoining panels should be of the same batch number or be thoroughly mixed together before use.

## Packaging

**weber.therm M1** is supplied in 20 kg paper sacks, with batch code, description and colour on the side.

## Coverage

Use	Nominal thickness	Coverage
Scrape	12 mm (finish)	19 kg/m <sup>2</sup>
Scrape ashlar	15 mm (finish)	23 kg/m <sup>2</sup>
Dash	12 mm	15 kg/m <sup>2</sup>

**Note:** These estimates take no account of wastage and will vary according to the method of application.

## Storage and shelf life

Store in clean, dry conditions above 5°C. When stored unopened in correct conditions a shelf life of 12 months can be expected. Protect from frost.

## Health and safety

Contains cement (Contains chromium (VI). May produce an allergic reaction). Harmful by inhalation. Irritating to eyes and skin. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection.

**For further information, please request the Material Safety Data Sheet for this product.**

## Technical support and advice

During the planning stages of a project, advice should be sought from **Weber** technical staff.

Advice based on technical expertise together with unrivalled practical experience is freely available and covers:

**Design:** assistance with the selection of the appropriate system, including working details and U-value calculations.

**Pre-Contract Documentation:** specifications, typical details, method statements.

**Contract Documentation:** site packages, available through the specialist contractor. These include approved details, specification and site procedures.

## Technical services

**Weber's** Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

### Technical helpline

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