

M34 is a mineral sealing slurry for the waterproofing of solid elements in interior and exterior areas.

PROPERTIES

- Easy to handle
- Bonds without priming on slightly damp substrates
- High frost and aging resistance
- Also applicable under negative water pressure
- Open to vapour diffusion
- Certificated by the construction authorities

AREAS OF APPLICATION

waterproofing of

- basement walls
- floor slabs
- splash water zones of base walls
- moist rooms
- water containers

as well as

- inside coating of water containers (water depth ≤ 6 m)
- horizontal waterproofing in and underneath walls

SUITABLE SUBSTRATES

- concrete (strength class $\geq C 12/15$ in accordance with EN 206)
- joint full brickwork
- lime cement plasters and cement plasters of the mortar categories CS II, CS III and CS IV in accordance with EN 998, compressive strength ≥ 2.5 N/mm²)

SUBSTRATE PREPARATION

The substrate must be in the following condition:

- slightly damp, clean and frost-free
- stable
- free from grease, paint, cement laitance, separating agents, sinter layers and loose particles

Please also note:

- remove protruding mortar remnants
- clear footing edges of any building rubble and soil
- chamfer external edges (angle $\sim 45^\circ$)
- pre-wet dry and absorbent substrates (avoid standing moisture)
- close cracks in the substrate with suitable material

When M34 is applied directly onto homogeneous brickwork it must be ensured that the brickwork is jointed fully throughout. In internal corners, such as for instance the wall/floor slab connection area, a concave moulding made of M36 Speed Multi-functional rapid cement mortar or M35 Multi-mortar has to be formed. Prior to application of the first waterproofing layer of M34 the concave moulding must have fully cured.

APPLICATION

- mix up using cold, clean water while stirring with a slow rotating agitator until a homogenous mass has formed
- briefly stir again after the maturing time
- apply the first layer saturating the whole area by using a pasting brush
- second layer and if needed any subsequent layers may either be slurry grouted, plastered or may be applied with a suitable spray gun
- don't mix material again that has started to set

APPLICATION

M34 is generally applied in at least two layers. When applying several layers it must be ensured that the previous layer is stable before the next layer is applied, it must however still be slightly damp and must not have fully cured. If needed it must be slightly pre-wetted before the next layer is applied.

water exposure	required layer thickness
ground moisture + non-accumulation seepage water	2.5 mm (equates ≥ 2 mm dry layer thickness)
pressing water	3.5 mm (equates ≥ 3 mm dry layer thickness)

CONSUMPTION

layer thickness 2.5 mm	~ 5.0 kg/m ²
layer thickness 3.5 mm	~ 7.0 kg/m ²

IMPORTANT ADVISORIES

When waterproofing building structures with mineral slurries all valid technical standards and guidelines must be observed in their current version.

You can view or download the safety datasheet at www.botament.com.

To achieve optimal results we recommend conducting a site-specific test sample prior to using.

While curing M34 has to be protected from drying-out too fast due to high temperatures, direct solar radiation or draughts.

If areas which have been sealed with M34 should be with covered with tiles later on, a waiting time of ~ 3 days after the application of the final layer has to be observed.

If areas which have been sealed with M34 should be plastered later on (e.g. in splash water zones of base walls), a spray scattering consisting of 1 part cement, 3 parts of sand and mixing water has to be applied first.

In case of the substrate being at risk of crack formation the waterproofing must be done using our fast, multi-functional reactive sealants RD2 The Green 1 or RD1 Universal.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	~ 2	
Thermal resistance	°C	> -20 < 80	
Optimum water solids content	%		
Slurry type		~ 24	
Plaster type		~ 19	
Mixing ratio	l		water/25 kg
Slurry type		~ 6	
Plaster type		~ 4.75	
Ageing time	minutes	~ 5	
Working time	hours	~ 3	
Layer thickness (maximum)	mm	3.5	
Accessible after	hours	~ 12	
Resilient after	days	~ 5	
Application conditions	°C	> 5 < 30	

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

base	cement combination with mineral fillers and additives
delivery form	25 kg bag
Storage	Can be stored in cool and dry conditions for at least 9 months in original unopened packs.
Cleaning agent	when fresh: water, when fully cured: cement laitance remover

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by Botament's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300017304]