

Baumit MC55W Bonding Adhesive

Product Datasheet

1. Product

Factory prepared dry powder mix render in accordance with EN 998-1, for manual and machine application, for use as a bonding coat or a thin two-coat meshcloth reinforced render system.

2. Suitable Uses

Baumit Bonding Adhesive MC 55 is suitable for use as a bonding coat onto painted masonry or smooth concrete surfaces for the subsequent application of render basecoats and/or finishes.

Baumit Bonding Adhesive MC 55 is generally used as a meshed reinforced thin coat render system onto render, plaster basecoats and render carrier boards.

Baumit Bonding Adhesive MC 55 can be applied over stable mineral based renders of mortar group CS III and CS IV together with concrete and resin based render backgrounds. This product can also be applied over stable paints.

Baumit Bonding Adhesive MC 55 can be applied as a coat of medium thickness for bonding, filling and finishing applications. This product is suitable for application onto lime-cement and cementitious basecoats with or without reinforcing mesh.

3. Composition

Sand, lightweight aggregate, hydrated lime, white cement and additives to improve workability, adhesion and reinforcement.

4. Performance

Baumit Bonding Adhesive MC 55 can be used in all external and internal areas. MC 55 has good workability qualities and very good adhesion. Once hardened, Bonding Adhesive MC 55 is water vapour permeable and frost and weather resistant. It is also highly impact resistant.

5. Technical Data

Mortar group:	CS III acc.to EN 998-1
Grain size:	0 – 1.2 mm
Compression strength:	3.5 – 7.5 N/mm ²
μ-value: approx.	10
Conductivity value 10,dry:	0.93 W/(mK) (for P= 90 %)
(Tabled values acc. EN 1745):	0.83 W/(mK) (for P= 50 %)
Conductivity value R	1.0 W/(mK)
(Tabled values acc.to DIN V 4108):	
Water requirement:	6 - 7 l/bag =240 – 280 l/t
Yield: approx.	24 l/bag or approx. 960 l/tonne
Coverage: approx.	1.0 kg/m ² at. 1mm
Coverage per bag	approx 4m ² @ 6mm and 2.5m ² @ 10mm
Minimum layer thickness:	as bonding coat 4-6 mm, as mesh reinforced thin coat system 10mm
Absorption:	W 2 (EN 998-1), water-repellent

6. Packaging

Paper bag, contents 25 kg, (42 bags per pallet = 1050 kg)

7. Storage

Dry and protected, do not store for longer than 6 months.

8. Quality Assurance

This product undergoes in-house monitoring, using a quality management system which conforms to the current international standard EN ISO 9001 and the environmental standard ISO 14001 and is certified.

9. Health and Safety

See separate Health & Safety datasheet.

10. Background

Baumit Bonding Adhesive MC 55 is suitable for application onto mineral based backgrounds such as concrete, masonry and lime or cement based basecoats. The background should be dry, stable, dirt and dust free, and able to receive a coating. New basecoats should be fully cured before subsequent applications. Remove any peeling paint, lime wash, grease stains (from shuttering) and other contaminants and film forming layers. Cracks should be scratched open with a pointed tool to form a "V" shape. Smooth backgrounds should be roughened up prior to application. Friable basecoats must be treated with Baumit Stabiliser PF.

11. Application

11.1 Mixing

The quantity of water required for mixing ranges from approximately 6 to 7 litres per bag (this is a guide only; the actual amount of water required depends on the consistency desired for normal site practice). Do not mix with other materials and ensure only clean water is used. Baumit Bonding Adhesive MC 55 can be manually mixed in a bucket or tub, depending on quantity, using an electric hand mixer. Fill the bucket to a third full with water. Gradually add the contents of the MC 55 bag to the water while mixing to a workable, lump-free consistency.

11.2 Application

Facade renovation

Baumit Bonding Adhesive MC 55 is generally applied to a thickness of 7mm and combed through with a brush while wet.

Baumit Alkali Resistant Meshcloth AG 01 glass fibre reinforcing mesh should be embedded into the mortar in areas where there is a risk of cracking and a 3mm topcoat applied wet on wet. Curing times of 1 day per mm thickness of render should be observed before applying further coatings.

Baumit Bonding Coat MC 55 can be applied in a 4mm and 2mm wet on wet application onto fair faced concrete and render backgrounds and rubbed up with a sponge float.

11.3 Hints

Do not apply in direct sunlight, rain or wind and protect the finished work until fully cured.

If rapid drying out occurs, dampen the finished work with water at regular intervals.

High humidity and low temperatures can increase curing times considerably.

Observe the minimum standing time of 1 mm render thickness per day before applying further coatings and finishes.

Ensure that with any reinforcing mesh coatings, the mesh is not damaged or exposed.

When double meshing, ensure that the second meshing coat is applied after at least one day.

Clean tools with clean water.

Protect other materials such as glass, ceramics or metal etc from contamination with appropriate coverings.

Do not apply or allow to dry under an air or wall temperature of +5°C and falling or more than + 30 °C. Observe the guidelines stated in this document or refer to the Lime Technology office for further advice.