

# Baumit MC 55 W

## Multi-purpose contact mortar

<b>Product</b>	Factory prepared dry powder mortar according to EN 998-1. Mineral based, multi-purpose contact mortar for manual and machine application.	
<b>Intended use</b>	Multi-purpose contact mortar: As a keying coat to prepare smooth concrete substrates to receive standard basecoat and topcoat renders (CS I and CS II). As a thin to medium reinforcement layer (with reinforcing mesh) over mineral basecoat renders, synthetic renders, thermal renders and selected render carrier boards. Also suitable as a topcoat layer over sound mineral substrates (CS II and CS III), concrete, synthetic renders, and stable painted surfaces.	
<b>Composition</b>	White cement, white lime, lightweight additives and additives to improve workability, adhesion and strength (fibres).	
<b>Properties</b>	Mineral, modified and easy to use contact mortar with a range of uses. Once cured, the product has good bonding strength, is water vapour permeable and resistant to weathering, water ingress and frost penetration. For use in external and internal areas.	
<b>Technical data</b>	Aggregate size:	0–1.2 mm
	Compression strength:	1.5 – 5.0 N/mm <sup>2</sup>
	Water vapour diffusion resistance $\mu$ -value:	ca. 10
	Thermal conductivity $\lambda_{10,dry}$ :	$\leq 0,93$ W/mK (P = 90 %,tabulated) $\leq 0,83$ W/mK (P = 50 %,tabulated)
	Water requirement:	6-7l/sack=240–280l/t
	Consumption:	1.0 kg/m <sup>2</sup> /mm
	Yield:	ca. 8 m <sup>2</sup> /sack (nominal 3 mm thick)
	Minimum layer thickness:	3 mm (topcoat layer) 5 mm (reinforcement layer)
	Capillary water absorption:	W 2 (EN 998-1)
<b>Health and safety</b>	Hazard label:	Xi irritant
	R-phrases:	R 36/38 Irritates the eyes and skin R 41 Risk of serious eye damage R 43 Contact with skin can cause sensitisation
	S-phrases:	S 2 Keep away from children S 24/25 Avoid contact with skin and eyes S 26 In case of eye contact, rinse with plenty of water and see medical assistance S 37/39 Wear suitable protective clothing and safety goggles
	Low Chromate content according to TRGS 613	
<b>Storage</b>	Store in dry conditions and protected on pallets for up to 12 months.	
<b>Quality assurance</b>	Continual monitoring and inspection of the quality of all raw materials upon reception. The manufacturer has a TÜV tested and certified Quality Management System in accordance with the international standard EN ISO 9001 and a TÜV tested and certified Environmental Management System in accordance with the international standard EN ISO 14001.	
<b>Packaging</b>	Sack 25 kg. 1 pallet = 42 sacks = 1050 kg	
<b>Substrate</b>	Suitable substrates include concrete, mixed masonry and lime/lime-cement render. Substrates must be sound, clean, dry, free from frost, dust and efflorescence. Basecoat renders should be fully cured. Existing mineral and organic based coatings and paints must be sound and well bonded to the substrate (pull off test and/or cross cut test). Peeling paint, lime wash, grease stains (from shuttering), other contaminants and film forming layers must	

be removed. Any cracks are to be scraped open with a pointed tool to form a "V" groove. High suction substrates and gypsum substrates must be pretreated with Baunit Hydrosol. Friable basecoats are to be pretreated with a stabiliser such as Baunit PutzFestiger. Algae and mould growth must be removed with a fungicidal wash such as Baunit FungizidLösung.

### Application

#### Mixing:

Baunit MC 55 W can be mixed with clean water in a tub to a lump free, creamy consistency with an electric hand mixer. Material which has started setting must not be remixed with water. Mixing with other products (e.g. anti-frost agents or accelerating agents) is not permitted. Automated continuous horizontal mixers may also be used. For small areas the contact mortar can be manually applied. For larger areas the freshly mixed mortar can be fed into a mortar pump for spray application. Alternatively, a mortar mixing pump will provide an all-in-one mixing and spraying solution.

#### Preparation of concrete, render and plaster substrates and remediation:

Baunit MC 55 W is applied to a thickness of 3 – 5 mm (with embedded Baunit StarTex reinforcing mesh where necessary) and the surface keyed with a brush or plasterer comb. Gypsum substrates must be pretreated with Baunit Hydrosol before applying a max. 2-3 mm thick layer of the contact mortar.

**Reinforcement layer over render coatings and selected render carrier boards:** Baunit MC 55 W is applied with a stainless steel notched trowel (10 mm notches). Continuous sheets of Baunit StarTex reinforcing mesh are placed onto the contact mortar, free of creases and with 100 mm overlapping edges. A further 1-2mm of contact mortar is applied "wet on wet" over the embedded reinforcing mesh. Excessive trowelling is to be avoided. Trowel lines are to be removed after hardening. The overall thickness of the reinforcement layer thickness must be from 6 – 8 mm.

### Further information

The air, material and background temperature must be above +5° C during application and curing.

Protect the facade from direct sunlight, rain and strong winds (i.e. with scaffold nets).

In hot and/or windy weather dampen the finished work at regular intervals with a water mist sprayer to aid hydration.

High air humidity and low temperatures can prolong drying times considerably. Observe the minimum standing time of 1 mm render thickness per day before applying further coatings and finishes.

When double meshing, ensure that the second meshing coat is applied after at least one day. Ensure that with any reinforcing mesh coatings, the mesh is not damaged or exposed.

Clean tools with water.

When Baunit MC 55 W is used as a topcoat finish it must receive a suitable water resistant paint.

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

#### Baunit topcoats:

Refer to the relevant Baunit Product Data Sheet for information.

This Product Data Sheet has been issued by:

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