aerodurit SPECIALISED

EBM08

LIME CEMENT EMBEDDING AND REINFORCEMENT MORTAR

aerodurit Construction Materials for Generations

aerodurit® Putz- & Betontechnologie GmbH
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TECHNICAL DATA SHEET

NON-HYDRO-PHOBIC

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Advantages	
aerodurit® system-compatible	✓
Extreme wear resistance	✓
High diffusivity	✓
Regulates the micro-climate in damp rooms	✓
Anti mould effect	✓

Special Applications	
Object-related for listed buildings	✓
Old and new buildings	✓
External and internal use	✓

FORMS PART OF aerodurit SPECIALISED AURORA THERMAL INSULATION PLASTER SYSTEM

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aerodurit® EBM08 is a fine-grained, purely mineral embedding and reinforcement mortar for the aerodurit® AURORA thermal insulation plaster system. For fixing of reinforcement fabric and finishing of facades and interior walls with load bearing, mineral substrates.

COMPOSITION

Selected crushed limestone sands, high quality Portland cement, hydrated lime, inorganic aerodurit®-additives.

PROPERTIES

Non-hydrophobic, high diffusivity, high salt resistance, water repellent, resistant to freeze-thaw-cycles, anti mould effect, feltable, excellent mechanical and manual processing, high daily performance.

APPLICATION

aerodurit® EBM08 is a component of the aerodurit® AURORA thermal insulation plaster system, meets highest requirements and is easy to apply. For internal and external use. For fixing of reinforcement fabric and finishing of old facades and interior walls with load bearing, mineral substrates.

TECHNICAL DATA

Pressure resistance	CS I
Flexural strength 28 d	0.7 N/mm²
Adhesive tensile strength 28 d	≥ 0.1 N/mm²
Fresh mortar weight	ca. 1,785 kg/m³
Flow spread	16 mm
Dry bulk density	1,575 kg/m³
Grain size	0–0.8 mm
Working temperature (ambient air, object and material)	+ 5 °C to + 30 °C

SUPPLY FORM

30 kg in paper bag. A maximum of 42 bags on euro pallet.

PRODUCT YIELD

30 kg with about 6.5 litres of water yield about 3.5 m² with a plastering layer of 8 mm.

CONSISTENCY

Plastic. The plaster is initially firm but during the mixing process will become more liquid. Practical tip: «When the mortar is cut with the trowel, it should stand on its own.»

PLEASE NOTE

Carefully cover windowpanes, metal parts, stone frames etc. Partially cured material must not be further processed. The plaster must be prevented from drying out too quickly and from weather influences such as sun, wind, driving / torrential rain and frost. To ensure successful curing and drying, temperatures should be above + 10 °C with a relative humidity of ca. 60 %. Indoors, this can be achieved by airing (do not use building dehydrators).

MANUAL PROCESSING

Low water usage. Use approximately 6.5 litres clean water per 30 kg dry mortar. Hold the electric mixer at an angle and mix at medium rpm for 2 to 3 minutes, until the mortar is ductile and air bubbles are visible. Do not over-mix and only mix as much material as can be processed immediately.

MACHINE PROCESSING

Low water usage. With the correct setting, aerodurit® EBM08 can be used in all plastering machines. For machine processing, we recommend a PFT G4 / G5: rotor and stator D6–3 (standard or twister), injection nozzle on top. Hose Ø 35 mm with max. 13.5 linear metres and hose Ø 25 mm with max. 5 lineal metres or just hose Ø 25 mm with max. 10–15 lineal metres. Spray nozzle 14 mm. Also check www.pft.de

Ensure that the inner hose is sufficiently lubricated before starting up (e.g. cement slurry). In case of processing breaks exceeding 20 minutes, machine and hose must be emptied.

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SYSTEM SETUP – STEP BY STEP

1 PREPARATION OF BASE LAYER

Substrate inspection and preparation as well as rendering must be carried out according to VOB / CATV DIN 18350 and DIN V 18550. All substrates must be clean, dry, stable, free of dust, blooming and separating agents. Remove sinter skin. Substrates that cannot be consolidated or provide insufficient adhesion must be completely removed.

2 PRIMER

Surfaces have to be primed with system-compatible aerodurit® CALSOL NATURE M-5 Mineral Primer to establish load-bearing capacity (see Technical Data Sheet aerodurit® CALSOL NATURE M-5).

3 PROCESSING

Intensively pre-wet the substrate. Apply 3–4 mm aerodurit® EBM08 Embedding and Reinforcement Mortar. Avoid or remove sinter layers at all costs. After the application of the plaster, pull off the surface evenly under slight pressure using a plasterer's float. Embed alkali-resistant reinforcement fabric (4 x 4 mm mesh width) in overlapping strips of ca. 10 cm. Observe a stand time of ca. 12 hours. Then apply a second coat (approx. 3–4 mm) of aerodurit® EBM08. Observe a stand time of 24 hours. Important: The reinforcing fabric must be completely covered and invisible.

4 SURFACE COATING

The plaster surface must be free of dust and dirt. Remove any existing sinter layers, moisten the substrate, and roughen if necessary. Only system-compatible aerodurit® finishing plasters may be applied to aerodurit® plasters.

STORAGE

Store weatherproof and frost-free on wooden pallets in a cool, dry room. Reseal opened packaging immediately. Closed packaging has a shelf life of 12 months from the production date under proper storage conditions. Keep out of the reach of children.

DISPOSAL

Allow product residues that are no longer required to dry completely and dispose of under waste code (AVV) 17 09 4 or hand over for disposal (mixed construction and demolition waste without mercury, PCB, and hazardous substances). Outside Germany, the local regulations are to be observed and complied with. Low chromate content according to directive 2003 / 53 / EG, GISCODE ZP1.

For further details please refer to the safety data sheet.

The specifications contained in this technical data sheet are based on years of proven experience by the company aerodurit®. A liability for the general validity of the individual data and recommendations, must, however be ruled out due to the varying processing conditions, as the application and processing methods are beyond our control.

The general rules of construction engineering must be adhered to. The data of internal or third-party monitoring may vary on the construction site due to processing methods, intensity of the mixing, technical specifications of the machines, adhesion of the substrate, application thickness, environmental influences, and the age of the material (refer to »Forschungsgemeinschaft Kalk und Mörtel e.V.« (research community lime and mortar), Report on norms, practical experience and theory, »26th Aachener Baustofftag«).

Previous data sheets become void through the publication of this data sheet. Stay up-to-date! Refer to www.aerodurit.com for the most current version of our data sheets.