

## Dry Spray Mortar

### APPLICATION ADVICE

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**Application Conditions:** It is possible to apply one or several layers. The second and all further layers are applied to each previously sprayed layer, which must have stiffened but not yet completely dry. If the previous layer has dried out completely, it must be pre-wetted before application. Please refer to the application information in the official test certificate.

**Machine Technology:** Standard dry-spraying machines with rotor delivery are suitable for application. To ensure a consistent delivery of the spraying material, we advise the use of the machine technology listed in Table 1.

**Water-/Oil separator:** To ensure an optimal delivery, an additional sufficiently large water-oil separator must be attached between the compressor unit exit and the spraying nozzle.

**Water Boosting Pump:** To prevent possible pressure fluctuations in the water delivery, which may lead to insufficient wetting of the dry-spraying material, it is absolutely necessary to employ a pressure-raising pump.

**Rebound Behaviour:** The rebound behaviour must be considered individually for each object, as it depends on position and accessibility of a structural part and on the skills of the nozzle-operator. Please refer to the nozzle-operator manual published by the Industrial Association German Construction Chemicals. The rebound values listed in Table 2 are experience values which take all parameters into account.

**Definition: Rebound:** Rebound is the part of the spraying material which rebounds from the surface and falls to the ground. Rebound is not the additional loss of material due to a possible subsequent treatment (finishing, levelling over a height gage) of the sprayed layer.

**Auxiliary Form Work:** When re-profiling supports, pillars and beams suitable form work must be installed. When concrete covers are increased over larger areas, height gages must be installed to achieve an even height.

### Machine Technology:

Configuration	Technology 1 (Velco)	Technology 2 (Aliva)
Dry-spraying machine	Velco Rotamat 25 tb with a 48 rotor	Aliva 237 with a 0.7 litre rotor
Spraying Nozzle	Cast iron nozzle 32/18 mm	Aliva Vulcollan nozzle 32/18 mm
Delivery Hose	Length: 40 m  Ø interior/exterior 48/32 mm	Length: 40 m  Ø interior/exterior 52/32 mm
Water-pressure raising pump	Adjusted to 6 bar water pressure	Adjusted to approx. 12-15 bar water pressure
Compressor Capacity	5-6 m <sup>3</sup> /minute	5-6 m <sup>3</sup> /minute
Delivery air pressure at the spraying machine	approx. 1.4-1.5 bar	approx. 1.4 bar
Delivery Capacity	approx. 800-1200 kg/h	approx. 300-400 kg/h

**Experience Values for Rebound:**

Direction of Application	vertical		overhead	
	Layer thickness (mm)	10-20	20-50	10-20
Rebound in %	20-25	15-20	25-35	20-25

**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 MC'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. [2100004872]