

ORP[®] 7085 HM

Redispersible Powder for Dry-Mix Mortars

4/12

INTRODUCTION

ORP 7085 HM is a redispersible powder produced by drying an emulsion of Vinyl Acetate / Acrylic copolymer with PVOH as protective colloid. The specific chemical composition of the polymer allows coalescence of the redispersed polymer at low temperatures and provides good adhesion to cementitious substrates.

ORP 7085 HM is used to modify mixtures containing hydraulic binders. Due to its particular chemical / physical composition, **ORP 7085 HM** improves adhesion, flexibility and water resistance of mortars containing hydraulic binders such as cement, gypsum or lime.

TYPICAL PROPERTIES

Appearance	White powder
Chemical composition	VA / Acrylic Copolymer
Stabilizing System (%)	PVOH
Residual Humidity (%)	Max. 1.5
Density (g/l)	525 ± 75
Ash Content (%)	12 ± 2
Alkali Resistance	High
<u>After 1:1 Dispersion with Water</u>	
pH	6.0 – 7.0
MFFT (°C)	7

APPLICATION AREAS

Tile Adhesives:

Due to its strong adhesion properties, **ORP 7085 HM** can be used for manufacturing of tile adhesives fulfilling C1 & C2 requirements.

The recommended dosages:

C1 tile adhesives: 0.5 – 1.0 %

C2 tile adhesives: 2.0 – 5.0 %

Repair Mortars:

Having excellent adhesion properties, abrasion and water resistance, **ORP 7085 HM** can be used between 1.0 – 2.0 % in repair mortar formulations.

PRODUCT HANDLING – STORAGE – SHELF LIFE

Packaging: Pallet with 18 or 30 paper bags, each 25 kg (450 or 750 kg) also 500 kg of big bags.

Packages must be stored in a dry and cool warehouse at temperatures between 10 – 25 °C. Pallets must not be stacked on top of each other to avoid caking due to the thermoplasticity of the polymer. Packing must be closed well after usage for protection against humidity and caking. It has to be used within 12 months.

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DLP 211**Redispersible Polymer Powder****Description**

DLP 211 redispersible polymer powder is a free-flowing, white powder obtained by spray drying of an aqueous vinyl acetate-ethylene copolymer dispersion.

It offers all the advantages of a free-flowing powder additive such as ease of transportation, storage and handling.

DLP 211 redispersible polymer powder can be used in a variety of applications in the construction industry to improve key properties of cement and gypsum based formulations.

Applications

- Cement based tile adhesives
- Tile grouts
- Thermal insulation systems (adhesive & reinforcement layer)
- Flexible tile adhesives
- Self leveling flooring compounds
- Renders
- Gypsum joint fillers
- Repair mortars
- Crack fillers

Advantages

DLP 211 redispersible polymer powder can be used in many different applications.

It improves the workability and other important mechanical properties such as tensile and flexural strength and abrasion resistance.

In cement based tile adhesives DLP 211 redispersible polymer powder provides excellent adhesion even to difficult substrates and enhances the flexibility.

It is especially recommended for building products exposed to conditions of thermal or mechanical stress, providing excellent impact resistance and helping to reduce the formation of cracks.

Physical Properties ⁽¹⁾	
Polymer base	Vinyl acetate - ethylene copolymer
Powder	
Appearance	White, free-flowing powder
Residual moisture	Maximum 2 %
Bulk density	0.400 – 0.550 g/ml
Ash content	10 - 14 %
Redispersion (50 % solids):	
Minimum film formation temperature (MFFT)	Ca.3 °C
pH	5,5 – 7,5

(1)These data are typical values and cannot be considered as a specification. For product handling and safety aspects, please refer to the Material Safety Data Sheet.

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Handling

DLP 211 is a free-flowing powder, and as such can create dust. Avoid dust build-up. Fine dust of this product can form weakly explosive mixtures with air and could pose as fire and explosion hazard; keep away from ignition sources. Take precautions to avoid accumulation of static charge. Practice care and caution to avoid explosive conditions.

Storage

DLP 211 redispersible polymer powder should be stored in a dry and cool environment. It is recommended to be used within 6 months. Storage in high humidity and temperature will increase the risk of blocking. Storage under pressure should also be avoided. Do not stack pallets on top of each other.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

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