

# ORP<sup>®</sup> 5070 MP

## Redispersible Powder for Dry-Mix Mortars

### INTRODUCTION

**ORP 5070 MP** is a redispersible powder produced by drying an emulsion of Vinyl Acetate / VeoVa 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 5070 MP** is used to modify mixtures containing hydraulic binders. Due to its particular chemical / physical composition, **ORP 5070 MP** improves **adhesion**, flexibility and **water resistance** of mortars containing hydraulic binders such as cement, gypsum or lime. Especially after heat aging and water immersion conditions **ORP 5070 MP** provides excellent performance.

### TYPICAL PROPERTIES

|  |                      |
|--|----------------------|
| Appearance                             | White powder         |
| Chemical composition                   | VA / VeoVa Copolymer |
| Stabilizing System                     | PVOH                 |
| Residual Humidity (%)                  | Max. 2.0             |
| Bulk Density (g/l)                     | 400 - 600            |
| Ash Content (%)                        | 12 ± 2               |
| Alkali Resistance                      | High                 |
| <u>After 1:1 Dispersion with Water</u> |                      |
| MFFT (°C)                              | 8 ± 1                |

### APPLICATION AREAS

#### Adhesives:

Due to its strong adhesion properties, **ORP 5070 MP** can be used for manufacturing of tile adhesives and ETICS adhesives fulfilling requirements of standards.

The recommended dosages:

|                   |               |
|-------------------|---------------|
| C1 tile adhesives | : 0.5 – 1.0 % |
| C2 tile adhesives | : 2.0 – 5.0 % |
| ETICS adhesives   | : 1.0 – 2.0 % |

#### Tile Grouts and Repair Mortars:

Having excellent adhesion properties, abrasion and water resistance, **ORP 5070 MP** can be used in tile grouts and repair mortar formulations, between 2.0 – 4.0 %.

#### ETICS (Exterior Thermal Insulation Coating Systems) Plasters:

Because of providing excellent water resistance and compressive strength **ORP 5070 MP** can be used also in ETICS plaster formulations, between 3.0 – 5.0 %

### PRODUCT HANDLING – STORAGE – SHELF LIFE

Packaging: Pallet with 18 paper bags, each 25 kg, also 500 or 1000 kg of big bags.

Packages must be stored in a dry and cool warehouse. 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 6 months after the date of delivery.