

ORP[®] Hydroflex 64

Hydrophobically Modified Redispersible Powder for Dry-Mix Mortars

1/14

INTRODUCTION

ORP Hydroflex 64 is a redispersible powder produced by drying an emulsion of Vinyl Acetate / Vinyl Versatate / Acrylic terpolymer 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 on mineral substrates.

ORP Hydroflex 64 is used to modify mixtures containing hydraulic binders. Due to its particular chemical / physical composition, **ORP Hydroflex 64** improves adhesion, **flexibility, hydrophobicity and water resistance** of mortars containing hydraulic binders such as cement, gypsum or lime. Especially because of the flexible nature, **ORP Hydroflex 64** performs very well in transverse deformation conditions.

TYPICAL PROPERTIES

Appearance	White powder
Chemical composition	VA / VeoVa / Acrylic Terpolymer
Stabilizing System	PVOH
Residual Humidity (%)	Max. 1.5
Density (g/l)	400 - 600
Ash Content (%)	12 ± 2
Alkali Resistance	High
<u>After 1:1 Dispersion with Water</u>	
pH	6.0 – 7.0
MFFT (°C)	0

APPLICATION AREAS

ORP Hydroflex 64 can be used in mortar formulations where highly flexbily/elastic, hydrophobic and water resistant behavior is required at the same time.

In high performance of ceramic tile grouts formulations (CG2) **ORP Hydroflex 64** can be used with the ratio of 2.0 – 4.0 % in weight and without requiring an additional hydrophobic agent. Moreover **ORP Hydroflex 64** is a very suitable redispersible powder polymer for cementitious water proofing mortars. It can be used with the ratio of 7.0 – 12.0 % in weight in 1K cementitious water proofing mortar formulations. Because of its molecular structure it provides high crack bridging ability. Also **ORP Hydroflex 64** performs very well in cementitious exterior plasters and topcoats with the amount of 2.0 – 4.0 %.

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.