

Product information

Metaver[®] O

Metakaolin - pozzolanic hardening admixture for hydraulic building materials

Description

Metaver[®] O is produced by calcination of concentrated kaolin and is a mostly amorphous aluminium silicate reacting with Portlandite (calcium hydroxide) to build cementitious CSH-phases.

Chemical composition (M.-%, approx.)

SiO ₂	53 - 54
AI_2O_3	41 - 44
Fe ₂ O ₃	< 0,5
K ₂ O	< 1,0

Physical characteristics (approx.)

<i>Appearance:</i> Colour		whitish beige
Specific density		2,6 g/cm ³
Bulk density		380 - 520 kg/m ³
Particle size distribution	d50 d90	3,2 μm 15 μm

Function

Portland cement develops ca. 25 % calcium hydroxide (free lime) in its hydration. This alkaline by-product is very soluble and is primarily attacked and dissolved in the presence of acids or sulphates.

Metaver[®] O special feature is its capacity to bind large amount of free lime in the form of stable CSH-phases. Reactivity and amount of this reaction may be controlled through chemical and construction adequate methods.

In relation to its reactivity Metaver® O can be qualified as "rapid".



Application			
	Metaver [®] O is a pozzolanic mineral additive that may improve many performances of hydraulic cementitious mortars, concrete and analogous products.		
	Metaver [®] O is easily mixed in. It gives a soft plastic consistence with good workability in the final product. Through its particle size distribution, no big increase in water demand is		
	Metaver $^{\ensuremath{\mathbb{S}}}$ O has shown its advantages in applications where strength, density and resistance are requested.		
	Metaver [®] O is approved for usage in concrete according to NF 18-513.		
	In the following applications $Metaver^{\ensuremath{\mathbb{B}}}$ O has been shown to be very useful:		
	Plasticity Stability Strength Lime binding Resistance Pigmentation Efflorescence Durability	shotcrete, repair mortars, coatings self-compacting concrete and mortars, selfleveling compounds renders based on lime and cement tile adhesive, coating of water pipes and reservoirs, shotcrete coatings of waste water or see water constructions better dispersion in precast or visible concrete roofing tiles, facade precast reduced alkali silicate reaction	
Dosage	5 to 15 % replacement of cement by weight.		
Stability	Unlimited in dry conditions.		
Storage	In protected and dry rooms.		
Packaging	In bags of 25 kg, or big bags of 1000 kg.		

The above information and recommendations are based upon our experience and are offered merely for advice. They do not absolve the consumer from making his own tests. Responsibility for damage arising from the use of our products cannot be derived from the recommendations given. The observance of any intellectual property rights of third parties is the responsibility of the consumer in each case.

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