

AnTec MM

High Reactivity Metakaolin

Product Description

AnTec MM is a specially designed high-reactivity metakaolin (HRM) for architectural concrete. It has high pozzoland reactivity and is used in geopolymeric cements and high strength concrete for construction of bridges, dams, buildings and expressways, significantly improving early and ultimate strength of Portland cements and special cements.

Application information

When mixed with ordinary Portland cement, AnTec MM can react with Ca(OH)_2 precipitated from the mixture and prevent the alkali aggregate reaction as well as formation of cracks. Meanwhile AnTec MM fills the pore space between cement and sand, reduces formation of cement pores and therefore improves early and ultimate strength of cements. Recommended dosage is 5-20% by dry weight of cement, generally 10%. AnTec MM is widely used in cast-in-place and precast concrete, glass fiber reinforced concrete (GFRC or GRC), mortars, grouts, and other cement-based products.

Dosage

When added at 10% of cement weight, AnTec MM can significantly improve initial and ultimate strength of cements. Water cement ratio is 0.5-0.55. When water reducer is added to reduce water cement ratio, reactivity index increases.

Typical Properties	
Physical Form	Highly Pulverized Powder
Activity Index (%)	120
Pozzolanic Index (mg $\text{Ca(OH)}_2/\text{g}$)	1300
Water Demand (%)	115
Specific Area BET (m^2/g)	22
Medium Particle Size (μm)	0.85
ISO Brightness (%)	88 ± 2
Free Moisture @ 105 deg C (%) as produced	<0.5
Bulk Density (kg/m^3)	350

Chemical Components (%)							
SiO_2	Al_2O_3	Fe_2O_3	TiO_2	K_2O	Na_2O	CaO	MgO
52.0 ± 1	45.0 ± 1	≤ 0.50	≤ 0.80	≤ 0.10	≤ 0.20	≤ 0.50	≤ 0.20

Anpeak Specialty Minerals Co., Ltd. is ISO 9001 and ISO 14001 certified.

The above typical properties are for general information only and should not be used for specification purposes. Performance characteristics may vary depending on specific application. All products should be tested in customer's formulation prior to use.

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