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Technical Bulletin

MetaMax[®]

High-quality pozzolanic additive for concrete

Product Description

MetaMax[®] is high-reactivity metakaolin (HRM) pozzolan produced by thermal activation of high purity kaolin clay within a specific temperature range. Metamax is a high purity white mineral admixture that meets or exceeds all of the specifications of ASTM C-618 Class N pozzolans. MetaMax reacts with free lime produced during hydration of cement and produces additional cementitious material. Unlike other pozzolanic materials, MetaMax is not a by-product but is instead manufactured to exact specifications in order to maintain high whiteness, high reactivity, ultrafine particle size distribution and product consistency.

Application Information

MetaMax is designed for use in a range of concrete applications, including: precast, ready mix, manufactured concrete products (MCP) and plaster. The pozzolanic properties of MetaMax yield superior strength and durability while simultaneously protecting against chemical attack, specifically efflorescence and Alkali-Silica Reaction (ASR).

Physical Properties

Physical Form

Special Modifications

GE Brightness (%)

Screen Residue, 325 Mesh (%)

Free Moisture (%) measured at 105°C

pH (20% solids)

Median Particle Size, Sedigraph (µm)

Specific Gravity (g/cm³)

Bulk Density, Loose lb/ft³ (kg/m³)

Bulk Density, Tamped lb/ft³ (kg/m³)

Typical Value

Highly Pulverized Powder

Dehydroxylated

85

0.05

0.5

6

1.3

2.50

16 / 260

30 / 480

All BASF kaolin manufacturing facilities are ISO 9001:2008 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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Rev. 7/2018

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