

Pozzoforce

High Reactivity Metakaolin

Metakaolin = a pozzolan -a silicate-based material that consumes calcium hydroxide (lime) to produce additional calcium silicate hydrate, the material responsible for holding concrete together. Consuming lime increases the strength and density of concrete, decreases efflorescence; virtually eliminates alkali-silica reaction. The use of pozzolanic materials in the concrete has a long and successful history. Structures including Egyptian Pyramids, Roman Pantheons have used natural pozzolana. Pozzoforce High Reactivity Metakaolin is superior pozzolan and amorphous silica. Pozzoforce is optimized and engineered Metakaolin specifically intended for use in Portland cement based formulations to add highly reactive amorphous silica to give strength in concrete. Equivalence in strength development and durability properties along with several additional features are achieved. Pozzoforce is Off White in color and it will not darken gray or white cement based concrete products.

Physical Properties

Appearance	Off White/Pink Powder
Specific Gravity	2.5
Bulk Density	0.45
Brightness	80±2
Particle Size	d50-2µ
Residue on 325 mesh	Max 0.5%
Pozzolan Reactivity	1020

*mg Ca(OH)₂/Gm

Chemical Properties

SiO ₂ + Al ₂ O ₃ + Fe ₂ O ₃	97%
CaO	0.40%
MgO	0.10%
TiO ₂	1.25%
Na ₂ O	0.55%
K ₂ O	0.10%
Loss on Ignition	2.00%

Engineered Supplementary Cementation additive for increasing performance, strength & durability.

Manufactured by

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Features

- Improves strength, durability, and workability of Portland cement concrete
- Reduces permeability, efflorescence, and cracking
- Reduces Porosity of hardened concrete
- Reduced shrinkage
- Contains no undesirable impurities, such as carbon or Sulphur which could affect the curing rate.
- Readily disperses in cement-based systems Is safe and easy to handle

Typical applications

High side building projects

Anti corrosive marine structure

Glass reinforced concrete

Bridges & Dams

Water Supply and Marine Pipelines

Precast & Cast Stone

Interlocking Paving

Roofing Products

Mortars, Stuccos & Repair Materials

Pool Plaster