

MetaStar[®] 501

Product Description

Metastar[®] 501 is a premium metakaolin produced by very carefully controlled calcination. It has been engineered with a high level of pozzolanic reactivity when used in portland cement-based concrete, plaster, and mortar. When MetaStar 501 metakaolin is used, it can react with the free lime by-product of portland cement hydration to form cementitious calcium silicate and calcium aluminate products, which can result in overall improved durability.

Unlike other pozzolanic materials such as silica fume, fly ash, and blast-furnace slag, MetaStar 501 metakaolin will not darken white or gray cement-based applications. The use of this engineered metakaolin in mortar, cement, and plaster can increase chemical resistance, compressive and flexural strengths and can reduce permeability. In addition, MetaStar 501 metakaolin can aid in reducing alkali silica reactions.

Application

- Portland Cement-Based applications (e.g., concrete, grouting, and stucco)
- High Whiteness Type I Portland Cement-Based applications including swimming and pool plaster.

TYPICAL PROPERTIES

Source	Sandersville, GA	
Color	White	
Brightness	(GE % MgO)	86
Particle Size	(Median, μm)	1.2
Specific Gravity	(g/cm^3)	2.5
pH		4 - 6
Moisture	(wt.%)	1.0

IMERYS Kaolin

100 Mansell Court East
Suite 300, Roswell, GA 30076
United States
Tel: +1 (770) 594 0660
Fax: +1 (770) 645 3384

Customer Service:

Tel: +1 (888) 277 9636
Fax: +1 (770) 645 3631
www.imerys-kaolin.com

IMERYS is a business name of
IMERYS Pigments, Inc.,
IMERYS Kaolin, Inc. and
IMERYS Marble, Inc.
Registered in the USA

©IMERYS 2016
Ninth edition, November 2014
CAS No. 92704-41-1



The data quoted here is believed to be correct. Every precaution is taken to ensure the products conform to our published data, but since the products are based on naturally occurring raw materials, we reserve the right to change these data should it become necessary. All recommendations and sales are made on the condition that we will not be held liable for any damages resulting from their use. This provision may not be changed by any of our representatives.