



MegaAdd MS(D)

Densified Microsilica

DESCRIPTION	<p>MegaAdd MS(D) is a very fine pozzolanic, ready to use high performance mineral additive for use in concrete. It acts physically to optimize particle packing of the concrete or mortar mixture and chemically as a highly reactive pozzolan.</p> <p>MegaAdd MS(D) in contact with water, goes into solution within an hour. The silica in solution forms an amorphous silica rich, calcium poor gel on the surface of the silica fume particles and agglomerates. After time the silica rich calcium poor coating dissolves and the agglomerates of silica fume react with free lime (CaOH_2) to form calcium silicate hydrates (CSH). This is the pozzolanic reaction in cementitious system.</p>
STANDARDS	ASTM C1240
USES	MegaAdd MS(D) can be used in a variety of applications such as concrete, grouts, mortars, fibre cement products, refractory, oil/gas well cements, ceramics, elastomer, polymer applications and all cement related products.
ADVANTAGES	<ul style="list-style-type: none"> • High to ultra high strength • High resistance to chlorides and sulfates • Protection against corrosion • Increased durability, longer service life for structures • Enhanced rheology, control of mixture segregation and bleed • Greater resistance to chemicals

TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
State	Amorphous	Sub-micron powder
Colour	-	Grey to medium grey powder
Specific Gravity	-	2.10 to 2.40
Bulk Density	-	500 to 700 kg/m ³
Chemical Requirements		
Silicon Dioxide (SiO_2)	-	Minimum 85%
Moisture Content (H_2O)	-	Maximum 3%
Loss on Ignition (LOI)	-	Maximum 6%
Physical Requirements		
Specifi Surface Area	-	Minimum 15 m ² /g
Pozzolanic Activity Index, 7 days	-	Maximum 105% of control
Over size particles retained on 45 micron sieve	-	Maximum 10%

COMPATIBILITY	<p>MegaAdd MS(D) is suitable for use with all types of cement and cementitious materials.</p> <p>With Admixtures :</p> <p>MegaAdd MS(D) is compatible to use with all types of water reducing plasticisers / superplasticisers and poly carboxylate based superplasticiser.</p>
DOSAGE	The normal dosage of MegaAdd MS(D) is 5 - 8% by weight of cement, but it can be used up to 10%. Site trials should be carried out to establish the optimum dosage for the mix to be used as the dosage varies depending on application.



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BATCHING	Batch MegaAdd MS(D) into the concrete mixer and mix thoroughly with the other mixture ingredients, adopting a procedure that ensures full dispersion of the product.	
PACK SIZE	600 Kgs and 1200 Kgs Jumbo bags	
GENERAL INFORMATION	Shelf Life	12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.
	Cleaning	Clean all equipments and tools with water immediately after use.
HEALTH and SAFETY	PPE's	Gloves, goggles and suitable mask must be worn.
	Precautions	Contact with skin, eyes, etc. must be avoided.
	Hazard	Regarded as non-hazardous for transportation.
	Disposal	Do not reuse bags. To be disposed off as per local rules and regulations.
	Additional Information	Refer MSDS. (Available on request.)
TECHNICAL SERVICE	CONMIX Technical Services are available on request for onsite support to assist in the correct use of its products.	



Construction Solutions for Africa

CAPE TOWN

Tel: +27 (0)87 231 0253
Unit 5 | M5 Freeway Park
Upper Camp Rd | Maitland | 7405
Cape Town | South Africa

JOHANNESBURG

Tel: +27 (0)82 785 8529
64 Maple Street | Pomona
Kempton Park | Johannesburg | 1619
South Africa

Email: info@msasa.co.za | www.msasa.co.za

Manufacturer:
CONMIX LTD.
P.O. Box 5936, Sharjah
United Arab Emirates
Tel: +971 6 5314155
Fax: +971 6 5314332
Email: conmix@conmix.com

Sales Office:
Tel: +971 6 5682422
Fax: +971 6 5681442
www.conmix.com



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