

duoMatrix® C

Unspecified
Smooth-On, Inc

Message:

duoMatrix® -C is new polymer additive that enhances the physical and performance properties of cementitious materials such as portland cements and mortars. duoMatrix® -C (Matrix® -C for short) eliminates the need for the usual 7-day post cure. It drastically reduces water and salt absorption and fills in micro cracks to minimize crack propagation. Other performance characteristics include greatly enhanced freeze/thaw, ultra-violet, and chemical resistance. Higher flexural strength reduces brittleness. Matrix® -G is available to enhance the performance of alpha-gypsums. Matrix® -C is easy to use and can be introduced to any aggregate mix. It is usually cast solid or mixed with chopped fiber and sprayed. Matrix® -C can be pigmented and improves color uniformity. Matrix® -C will improve processing of GFRC, making architectural elements and concrete castings (ornamental, etc.) more durable.

Mix Ratio for GFRC:

Pre-Mix

Type 1 Cement: 100 parts

Sand: 80 parts

Matrix® C: 15 parts

Water: 23 parts

A-R Glass: 6 parts

Spray Up

Type 1 Cement: 100 parts

Sand: 100 parts

Matrix® C: 15 parts

Water: 23 parts

A-R Glass: 10 parts

General Information			
Features	Good Chemical Resistance		
	Good Crack Resistance		
	Good Flexibility		
	Good UV Resistance		
	Low to No Water Absorption		
	Salt Water/Spray Resistant		
Uses	Blending		
Processing Method	Casting		
	Spraying		
Physical	Nominal Value	Unit	
Specific Volume	1.060	g/cm ³	
Freeze/Thaw Resistance	3.0E+2	Cycles	
Permeability	1200 coulombs		
Density	1.60 to 2.08	g/cm ³	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	< 6.21	MPa	ASTM D638
Flexural Strength	< 34.5	MPa	ASTM D790
Compressive Strength	< 89.6	MPa	ASTM D695

Thermoset	Nominal Value	Unit
Pot Life	45 to 90	min
Demold Time	960	min

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