

duoMatrix® G

Unspecified
Smooth-On, Inc

Message:

duoMatrix®-G is a new three component polymer additive system that greatly enhances the physical properties of alpha gypsum products duoMatrix®-G (Matrix-G® for short) reduces the demold and drying time of gypsum and drastically reduces water permeability making it suitable for both interior and exterior applications (for exterior use, product must be sealed - see "post finishing" section). Matrix®-G has less odor and yields elements that are a brighter white than competing products. Matrix®-G is easy to use and can be cast solid, laid up by hand with chopped fiber or sprayed. Fully cured pieces can be painted, sanded, machined and polished. Matrix®-G is used to make lightweight pieces that are very strong and water-resistant. Applications include making architectural elements, reproducing sculpture and special effects. Vibrant colors are possible by adding pigments. Metal powders (bronze, pewter, brass, etc.) can be added to give the look of real metal castings at a fraction of the cost. You can duplicate the look of marble or ceramic by adding inexpensive fillers.

Note: duoMatrix®-C is also available as a one component additive for concrete/GFRC (Glass Fiber Reinforced Concrete) applications.

General Information			
Features	Good Strength		
	Low to No Odor		
	Low to No Water Absorption		
	Machinable		
	Paintable		
Uses	Blending		
	Modeling Material		
Appearance	White		
Processing Method	Casting		
	Hand Lay-up		
	Spraying		
Physical	Nominal Value	Unit	
Specific Volume	0.630	cm³/g	
Freeze/Thaw Resistance	3.0E+2	Cycles	
Mixing Ratio	100 Parts Gypsum + 50 Parts C-1 Latex + 10 Parts C-2 Resin + 0.5 Parts C-3 Hardener		
Density	1.59	g/cm³	
Water Absorption (24 hr)	0.25	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	22.8 to 37.9	MPa	ASTM D638
Flexural Strength	51.7 to 67.6	MPa	ASTM D790
Compressive Strength	44.8 to 65.5	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	31	kJ/m²	
Thermoset	Nominal Value	Unit	
Pot Life	45 to 60	min	

Demold Time

90 to 120

min

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