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Estes' Permacolor Quartz Granules
Tech Data Sheet (2015)

Grade: Broadcast Fine, Broadcast Medium, Trowel-Rite, Super Trowel-Rite

General Data		
Property	Measuring Standads	Value
Hardness	Moh's Hardness Scale	6.5-7
Bulk Density	ASTM C29/C29M-97 (2003)	90-100 lbs./Cu. Ft.
Specific Gravity	ASTM C128-01e1	2.65

Composition (typical)	
Material	% Weight
Silica Sand	94
Resin	4.95
Various Colorants	<1

Chemical Analysis (typical base mineral)					
SiO2	Fe2	Al2O3	CaO	MgO	Loss on Ignition
99.80%	0.03%	0.06%	0.02%	<0.01%	0.10%

Sieve Analysis (ASTM D451-91 (2002))	AFS GFN MIN 30 MAX 33						
Mesh (% Retained)	16	20	30	40	50	70	100
Retained-BC Fine				<2	37	44	11
Retained-BC Medium		<1	13	64	19	3	1
Retained- Trowel-Rite	<1	45	49	6	0		
Retained- Super Trowel-Rite	48	51	1	0			

The data set forth in this Product Data Sheet represents typical properties of the product described; the information and the typical values are not specifications. The Clifford Estes Company cannot be responsible for the end use of its product. Final suitability of the product is the responsibility of the user.