

# Estes' PermaColor Quartz Granules HP

## Product Data Sheet

**Grade:** Broadcast Medium, Trowel-Rite, Super Trowel-Rite  
 PermaColor HP Granules\* have been specially formulated for demanding applications associated with today's newer high performance resin systems. To compliment the performance of UV resistant coatings PermaColor HP Granules were developed to resist UV in outdoor or indoor applications. Their polymer backbone compatibility with aliphatic, epoxy, polyurea, and acrylics make them an exceptional choice for resinous systems. Only the most UV stable pigments have been incorporated into the aggregate system to maintain colorfastness.

<b>General Data</b>		
<b>Property</b>	<b>Measuring Standards</b>	<b>Value</b>
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

<b>Composition</b> (Typical)	
<b>Material</b>	<b>% Weight</b>
Silica Sand	97.5
Resin	2.0
Various colorants	0.5

<b>Chemical Analysis</b> (Typical base mineral)				
SiO <sub>2</sub>	Fe <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO & MgO	Loss on Ignition
99.808%	0.016%	0.042%	0.200%	0.100

<b>Sieve Analysis</b> Typical							
<b>Mesh (% Retained)</b>	<b>16</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>70</b>	<b>100</b>
Retained- BC Med		9.0	12.4	54.0	22.0	1.9	0.7
Retained- Trowel Rite		45.0	49.0	6.0	<0		
Retained- Super Trowel Rite	48.0	51.0	1.0	<1			

\* 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 this product. Final suitability of the product is the responsibility of the user.