

REFLECTIVE PAINT EJ-510

EJ-510 reflective paint for plastic scintillators is a bright white paint consisting of titanium dioxide pigment and a water soluble paint base selected for excellent resistance to yellowing and good adhesion. While primarily intended for coating of blue-emitting plastic scintillators, EJ-510 employs a blend of pigments selected also for enhanced reflectivity for longer wavelength scintillators with green emissions. This is a diffuse reflector for use on scintillators where the length is not greater than twice the width. It should not be used on long, narrow, optical elements. In addition to plastic scintillators, EJ-510 has been successfully applied to acrylic light guides and a variety of metals.

Maximum reflectivity is achieved by the application of three or four thin coats of EJ-510. After it has thoroughly dried, EJ-510 is not water soluble. However, it may be removed from a painted article by gentle rubbing with the aid of a mixture of water and isopropanol. One liter of EJ-510 can easily cover 10 square meters with three layers of the coating.

Note: EJ-510 should not be used on hygroscopic materials such as some inorganic scintillators.

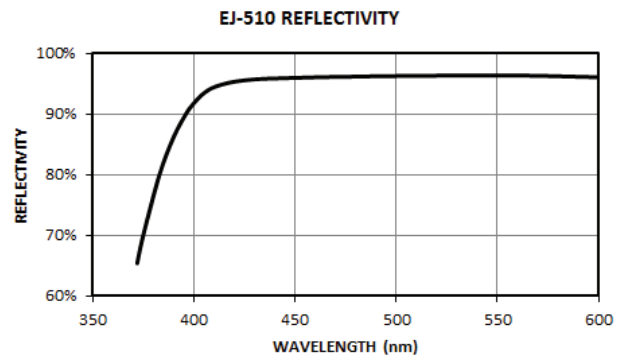
Instructions For Use: Always shake well before each use. Apply to clean, dry, sanded (240 - 400 grit) or sand-blasted surfaces for best adhesion. Paint may be diluted with water as needed for application. Allow paint to dry thoroughly between coats. For best reflectivity, apply a minimum of three coats.



PACKAGE SIZES

500 ml

1000 ml



COMPOSITION	EJ-510
Typical 3-Layer Coating Thickness (mm)	0.11
Typical Density of Dried Coat (mg/cm ²)	13
Ti Atoms per cm ² (×10 ¹⁹)	6.71
C Atoms per cm ² (×10 ²⁰)	1.12
H Atoms per cm ² (×10 ²⁰)	2.25
O Atoms per cm ² (×10 ²⁰)	1.90

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