

ST POWDER COATINGS

presents

GREEN PLANET



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Polyester Environmentally Sustainable

Sustainable development is a form of development that does not compromise the ability of the future generations to last in the development, protecting the quality and the quantity of the natural reserves. The goal is to maintain an economic development compatible with social equity and ecosystems, operating therefore in an environmental equilibrium.

Traditional powder coatings, although considered "green" because totally free of emissions, do not belong to the "environmentally sustainable" category, because most of the components are directly derived from oil. The main component of a powder coating system is the polyester resin: by itself accounts for about 50-70% of the paint and is totally derived from oil.



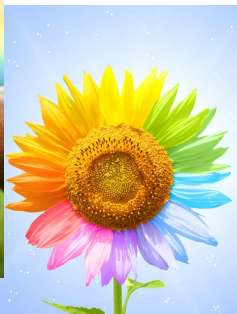
The replacement of this component with a product of new conception, not deriving from the oil, would represent a big step towards sustainable development.

A further step towards sustainability concerns the temperature of polymerization: classic polyester powder coatings have a cure cycle of 170-180°C x 20 min. Decreasing the polymerization temperature at 150 ° C would further reduce the environmental impact of the product.

Following this policy, ST Powder Coatings has developed a new polyester coating series that allows:

- a) To reduce the consumption of non renewable resources.
- b) To decrease the curing temperature at 150°C X 20', with consequent reduction in emissions of CO₂.
- c) To obtain the same aesthetic and protecting qualities of the current industrial polyester powder coatings.

The good UV resistance of this new series, called "Green-Planet", is shown in the following graph (accelerated aging test, QUV-B).



ST Green Planet powder coatings are available in these versions:

Finishes	Brightness	Colour
smooth	glossy and half-glossy	red, grey, green, ivory, blue, white
fine texture	half-matt	
available also in metallic and antibacterial versions		



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