

# TECHNICAL DATA

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THIS CHEMICAL IS  
FORMULATED FOR  
INDUSTRIAL USE ONLY

## WARNING

Contact with skin or clothing or other improper handling or use of this product may result in bodily harm or other damage. Before using or mixing the contents with other substances, all labels applied to container, the applicable Technical Data Sheet and Material Safety Data Sheet should be read and specific instructions and precautions followed to assure correct use and personal safety.

# OXYGUARD EZ CLEAN CLEAR

## Anti-graffiti Powder for Outdoor Applications

### Description

INSOLTEC EZ CLEAN CLEAR is a clear polyester based on high functional hydroxylated resins and cycloaliphatic isocyanate without emission in a smooth high gloss finish. It is typically used on a number of substrates and metallic finishes protecting from oxidation. The product provides outstanding resistance to aggressive penetration of spray paints and inks, excellent transparency and good outdoor resistance in terms of UV and weathering resistance. In addition the powder is lead-

### General Properties

These properties are typical but do not constitute specifications.

Surface appearance	Smooth, glossy, clear
Gloss at 60° (ISO 2813)	Not Applicable
Specific weight (P)	1,17 ± 0,05 Kg/dm <sup>3</sup>
Curing cycle (time and temperature on the object)	20 min @ 200°C
Application	Suitable for Corona
Particle size (laser)	D (0,5) = 35-45 microns The product specific PSD is available on request. Customized distributions may be prepared on request as well.
and TGIC-free.	

### General Film Characteristics

#### Mechanical Properties

Film thickness	ISO 2360	60 microns
Dry cross-hatch adhesion	ISO 2409	GT0
Pencil hardness	ASTM D3363-74	H - 2H
Impact test	ASTM D2794	³ 2,5 Nm
Erichsen cupping	ISO 1520	³ 5 mm
Mandrel bend test	ISO 1519	£ 5 mm

#### Outdoor Resistance

In artificial atmosphere: 200 hour UV-CON

UV 313 nm lamps  
Condensation 4 h at 40 °C  
UV 4 h at 60 °C

Gloss retention	ISO 2813	³ 50%
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**Note:** All tests are made on aluminium panels at 60 microns.

### Cleaning Tests

Tests have been performed through application of typical graffiti spray paints on the coated surface of a well cured panel:

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Table 1

	Nitro Solvent		Trichlor ethylene		Acetone		Xylol		Methyl Ethyl Ketone		Aviation petrol		Synthetic turpentine oil		Ethyl alcohol	
<b>A</b>	1-2	1-2	1-4	1-4	1-2	1-2	1-1	3-1	1-2	1-2	3-1	5-1	3-1	5-1	3-1	3-1
<b>B</b>	1-2	1-2	1-4	1-4	1-2	1-2	1-1	1-1	1-2	1-2	3-1	5-1	3-1	5-1	3-1	5-1
<b>C</b>	1-2	2-2	1-4	2-4	1-2	2-2	1-1	2-1	1-2	2-2	2-1	5-1	2-1	5-1	1-1	3-1
<b>D</b>	1-2	2-2	1-4	2-4	1-2	2-2	1-1	2-1	1-2	2-2	1-1	5-1	2-1	5-1	1-1	2-1
<b>E</b>	/	1-2	/	5-4	/	1-2	/	5-1	/	1-2	/	5-1	/	5-1	3-1	5-1
<b>F</b>	/	1-2	/	5-4	/	1-2	/	5-1	/	1-2	/	5-1	/	5-1	/	4-1
<b>G</b>	/	1-2	/	5-4	/	1-2	/	5-1	/	1-2	/	5-1	/	5-1	/	5-1

↑ Solvent action on the ANTIGRAFFITI coating (test performed 14 days after spraying).  
 ↑ Cleaning effectiveness (test performed 14 days after spraying).  
 ↑ Solvent action on the ANTIGRAFFITI coating (test performed 24 hours after spraying).  
 ↑ Cleaning effectiveness (test performed 24 hours after spraying).  
 ↑ Spray paint type

**Key**

Table 2

Spray Paint					
<b>A</b>	Alkid spray (RAL 2004)		<b>E</b>	Nitro enamel spray (yellow)	
	Synthetic enamel spray (medium blue)			<b>F</b>	Weatherable acrylic spray (RAL 1015)
	Synthetic quick drying spray (RAL 3005)		<b>G</b>		Synthetic quick drying spray (RAL 6001)
	Synthetic quick drying spray (RAL 3005)				

Table 3

Cleaning Effectiveness	
<b>1</b>	Quick and complete cleaning
<b>2</b>	Complete cleaning
<b>3</b>	More than 70% cleaning
<b>4</b>	More than 50% cleaning
<b>5</b>	Less than 50% leaning

Table 4

Solvent action on the INSOLTEC EZ CLEAN CLEAR	
<b>1</b>	No softening of the coating
<b>2</b>	Slight temporary softening of the coating
<b>3</b>	Discrete softening of the coating
<b>4</b>	Strong softening of the coating
<b>5</b>	Dissolution of the coating

**Note:** Before starting whole cleaning operation, it is mandatory to make sure the cleaning agent is suitable for your needs by testing effectiveness (i.e., handy cleaning without harming coating durability and weathering properties) on hidden parts.

**General Data**

**Application Fields**

INSOLTECH EZ CLEAN anti-graffiti coatings provide an effective permanent protective system against graffiti on public furniture, bus stops, lockers, telephones, transportation systems or any public and/or private property where protection against vandalism is required.

**Pretreatment**

Supports must be free from grease, slag, and rust. It is recommended to pretreat supports with zinc or iron phosphating or to set an adequate chemical conversion of the surface according to the material that has to be coated.

**Storage Life**

It is recommended to store the powder in its original sealed package in dry conditions at temperature £ 30°C, not exposed to direct sunlight. After the expiry date, the product has to be checked before use.

**Thickness (S)**

Expressed in microns. Recommended between 60 and 100 microns.

**Consumption (C)**

$$C=(S \times P) / 1000$$

Expressed in Kg/m<sup>2</sup> of coated surface. S is the average film thickness in microns and P is the powder specific weight in Kg/dm<sup>3</sup>.

**Yield (R)**

$$R=1000 / (S \times P)$$

Expressed in m<sup>2</sup> of surface coated with one Kg of powder. S is the average film thickness in microns and P is the powder specific weight in Kg/dm<sup>3</sup>.