



## ***WALLSKY SERIES***

WALLSKY-XXX



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# WALLSKY SERIES

Antiskid glittering powders

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## 1. TECHNICAL INFORMATION

The main feature of the *Wallsky* series is the antiskid property: a special additive affords a very rough surface as final result.

One or more types of metal dusts are also added to the powder, thus conferring even to the appearance of this product an absolutely unique glittering look.

### • TECHNICAL DATA

Chemical nature	Polyester modified
Finish	Special textured
Class of resistance	Class 1 (suitable for outdoor use)
Yield in surface/mass	13,1 m <sup>2</sup> /Kg
Specific weight	1,27 ± 0,03 g/cm <sup>3</sup>

### • APPLICATION AND CURING CYCLE

Available for corona charging.

Curing time and temperature:

- 20 minutes at 180°C – 356°F (metal temperature).
- 16 minutes at 190°C – 374°F (metal temperature).
- 12 minutes at 200°C – 392°F (metal temperature).

Recommended thickness: 60-80 micron.

The possible use of recycling powder must be carried out under controlled and repetitive conditions.

### • MECHANICAL PROPERTIES

Test	Standard Reference	Result
Buchholz	ISO 2815	ok
Cross-cut	ISO 2409	no loss of adhesion; ok
Impact 2,5 N*m	ISO 6272	ok
Bending	ISO 1519	no loss of adhesion; ok
Salt spray	ISO 9227	corrosion <4 mm; ok

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## 2. PRODUCTS AVAILABLE IN STOCK

### ● PRODUCT CODE

WALLSKY-005

WALLSKY-006

WALLSKY-007

WALLSKY -008

WALLSKY-009

WALLSKY-010

WALLSKY-011

WALLSKY-013

WALLSKY-022

WALLSKY-023



### ● PACKAGING



Cardboard packaging; net weight 20 Kg – Lower weight mini boxes are available.

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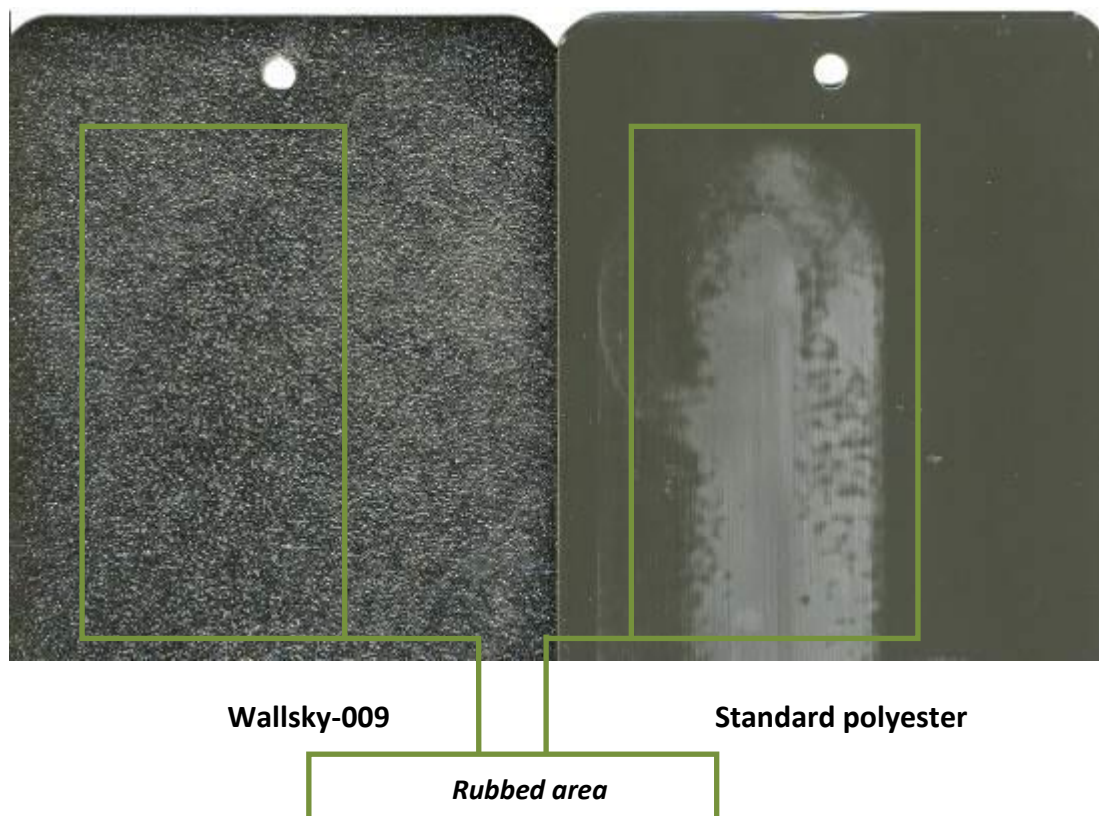
Antiskid glittering powders

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## 3. ABRASION TEST

The resistance of this series of powders to wear and abrasion has been tested by the Decoral Lab.  
The surface of a panel coated with Wallsky-009 has been rubbed with sandpaper (grit 600) with a 1 kg weight on it.  
100 consecutive strokes have been made.

The test has been carried out in the same conditions on a panel coated with standard powder, to evaluate the gain in terms of resistance to abrasion that we get with the special surface and formulation of the Wallsky series.



Weight: 1kg

Grit of the sandpaper: 600

Number of consecutive strokes: 100

As we can notice, the surface of the sample coated with Wallsky powder is almost unchanged and has been barely altered by 100 strokes with sandpaper.

The same treatment on the panel coated with standard powder has seriously damaged the surface of the sample.

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### 4. ANTI-SLIP TEST

The anti-slip properties of this powder were tested by an external laboratory. According to **DIN 51130** standard, the slip resistance is tested by measuring the coefficient of friction of a specific material. The results are classified into five categories, going from R9 to R13.

TILT ANGLE	DIN 51130 Classification
$6^{\circ} \leq a \leq 10^{\circ}$ (from 6° to 10°)	<b>R9</b>
$10^{\circ} < a \leq 19^{\circ}$ (from 10° to 19°)	<b>R10</b>
$19^{\circ} < a \leq 27^{\circ}$ (from 19° to 27°)	<b>R11</b>
$27^{\circ} < a \leq 35^{\circ}$ (from 27° to 35°)	<b>R12</b>
$a > 35^{\circ}$ (over 35°)	<b>R13</b>

- **R9**: entrance areas and stairs with access from the outside; restaurants and canteens; shops; clinics; hospitals and schools.
- **R10**: shared bathrooms and showers; small commercial kitchens; garages and basements.
- **R11**: rooms for the manufacture of food; medium commercial kitchens; working environments with strong presence of water and mud; laboratories; laundries; hangar.
- **R12**: environments for the production of food rich in fats such as: dairy products; oils and cold cuts; large-scale commercial kitchens; industrial departments working with slippery substances; car parks.
- **R13**: high-fat environments; food processing.

Our tested product, more precisely a sheet coated with white WALLSKY-005, obtained **R12** rating.

**WALLSKY SERIES**



**DIN 51130 (06/2004)- Determination of the anti - slip properties – Workrooms  
and fields of activities with raised slip danger, walking method – ramp test**

Surface characteristics

- ☐ Smooth  
☐ Profiled  
☐ Structured  
☒ Rough

**OPERATIVE CONDITIONS**



Walking direction



**RESULTS**

Average total acceptance angle:

31.9°

Movement area (cm<sup>3</sup>/dm<sup>2</sup>):

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**CLASSIFICATION (BGR 181- 10/2003)**

Group of anti - slip properties:

R12

Movement area evaluation group:

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Pietro Bruzzi  
Technical verification

Prof. Maria Chiara Bignozzi  
Director







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## 5. NATURAL WEATHERING TEST

The Florida natural weathering test is a mandatory test, required by all international specifications, critical to evaluate the resistance of coating powders for external use. This test is based on International Standard ISO 2810:2004; the sample panel shall be exposed facing 5° south for 12 months. Gicolor exposes its sample panels also for 24, 36 or 60 months to evaluate them in extreme conditions. On their return, the panels are evaluated for color change ( $\Delta E$ ) and gloss remaining percentage.

In the following picture there is a sample Test Report on a Wallsky powder; for more information, on Gicolor website result of natural weathering test for Wallsky powder are available.

Test Report: Florida Natural Exposure		Gicolor		19
 Florida Test	 Total duration: 12 months			
 EXPOSURE PERIOD: FROM: 03/04/2013 TO: 01/04/2014				
LAB ID NUMBER: 29535 POWDER COATING: Wallsky-005 HEAT TRANSFER FILM: - Colour variation ( $\Delta E$ ): 0,69 residual gloss: 100%				
Technical Remarks Excellent residual gloss and low colour variation ( $\Delta E$ ) (ENAL 9016)				
Technical Opinion: <b>Suitable for OUTDOOR USE</b>				
<small>Test was carried on samples prepared according to technical specifications supplied by raw materials manufacturers.</small>				
<small>QUALICOAT REQUIREMENTS The residual gloss shall be at least 50% of the original gloss. The <math>\Delta E</math> values shall not exceed the maximum values prescribed in the annexed table (see Appendix A7 of Qualicoat Specifications).</small>				
Mod_TR_02_rev02    Laboratory Gicolor    Date: 10/05/2014    ID Report: TR NE 16-2014				

Test report on 12 months Florida natural weathering test of Wallsky-005.

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## 6. APPLICATION FOR A GOOD RESULT




### • THICKNESS OF THE POWDER COAT

In order to obtain the very rough surface that is typical of this series and at the same time a uniform effect of the color, the *thickness of the powder coat* is recommended to be within a certain range:

THICKNESS [micron]	Effect	Result
<60	Cloud effect, color not uniform	
60-100	Rough surface and full color	
>100	Surface smooth or not rough	

### • VOLTAGE DURING APPLICATION

Another important factor to consider is the *voltage applied*, so that the powder can adhere easily and uniformly to the surface to be coated:

VOLTAGE [kV]	Adhesion of the powder	Result
<35	Difficult and not uniform	
35-50	Difficult, it takes more powder	
>50	Easy and uniform	



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## 7. MARKETING MATERIAL



A3 catalogue with aluminum samples



A4 catalogue with aluminum samples



Set of 8 aluminum decorated panels

With each 20 kg product order will be delivered a copy **FOR FREE** of the **A3 catalogue with aluminum samples**.

On demand, it is possible to **customize the marketing material**.



## **GICOLOR SRL**

Sede legale: Viale del Lavoro, 5 - 37040 Arcole (VR)

Sede operativa: Via Tagliamento, 4 - 36056 Belvedere di Tezze sul Brenta (VI)

Tel. +39 0424 560208 - Fax +39 0424 564601



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