



ICETOUCH-XXX

Special textured effect powders



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Icetouch-XXX

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1. PRODUCT FEATURES

The main feature of the *Icetouch* powders is their unique rough surface: special additives afford both a peculiar roughness and a shine that differ definitely from typical textured powder coatings.



Picture 1: Sample panel with some of colors available for Icetouch serie.

2. TECHNICAL INFORMATION

- **Technical data**

Powder type	Polyurethane
Class resistance	Class 1 (suitable for outdoor use)
Yield (in surface/mass)	13,1 m ² /Kg
Specific weight	1,27 ± 0,03 g/cm ³

- **Application and curing cycle**

Available for corona charging.

Curing time and temperature: 20 minutes at 200°C – 392°F (metal temperature).

- **Mechanical properties**

<i>Test</i>	<i>Standard reference</i>	<i>Result</i>
Buchholz hardness	ISO 2815	ok
Cross-cut	ISO 2409	no loss of adhesion; ok
Bending	ISO 1519	no loss of adhesion; ok
Salt spray	ISO 9227	corrosion <4 mm; ok

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3. VARIANTS AND SPECIAL FORMULATIONS

On customer's request, the following special formulations are available:

- Antimicrobial;
- Matching RAL references;
- In metallic colors.

4. METALLIC COLOR FORMULATION: *METALTOUCH*

Metaltouch powders are a special variant of this series: by adding a metal-looking shade to the colors of these products, we obtain a new effect, unique under every point of view.



Picture 2: Sample panel coated with *Metaltouch* finishing: on the left, Icetouch-011; on the right, Icetouch-013.

5. POSSIBLE USAGE

The *Icetouch* powders may finely suit those applications where their very special textured surface can be closely appreciated and touched. However, they can also be properly valorized in those applications where their unique brightness alone would result in an add value.



Picture 3: On the left, handle coated with Icetouch-018; on the right, jar coated with Icetouch-008.

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6. LABORATORY TEST

- **Hiding test**

Hiding test allows the assessment of the ability of a powder to show the surface of the material on which is deposited: lower is the hiding power, higher is the thickness of powder coating that must be applied to hiding the surface below.

For this purpose, the test is done by painting with an Icetouch powder a sample panel, which has a black area and a white area; higher is hiding power, lower is the difference between the two parts of painted sample panel. In the following picture there are two example of test; it results that hiding power of Icetouch powders is not high, so it is even more important a perfect pretreatment of surface of which the powder is then used to obtain a homogeneous final effect.



Picture 4: On the left, hiding test with Icetouch-007; on the right, hiding test which Icetouch-016.



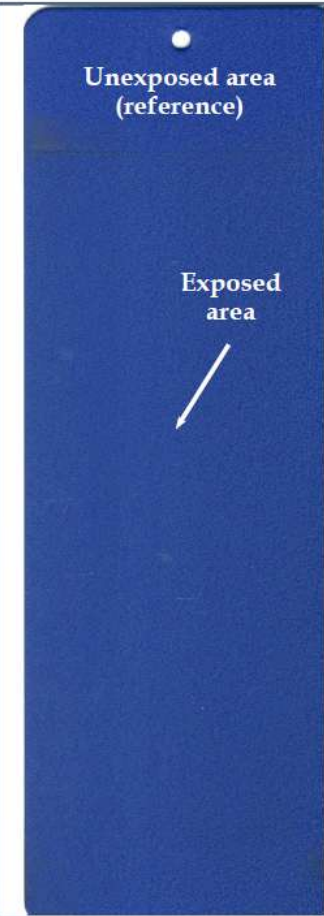

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- **Natural weathering test**

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 (ΔE) and gloss remaining percentage.

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

Test Report: Florida Natural Exposure		Gicolor		20	
	Florida Test		Total duration: 12 months		
		EXPOSURE PERIOD:			
FROM: 03/04/2013					
TO: 01/04/2014					
LAB. ID NUMBER: 29544					
POWDER COATING: IceTouch-003					
HEAT TRANSFER FILM: --					
Colour variation (ΔE): 2,66					
residual gloss: 80%					
Technical Remarks					
Excellent residual gloss and low colour variation (ΔE) (\pm RAL 5002)					
Technical Opinion:					
Suitable for OUTDOOR USE					
Test was carried on samples prepared according to technical specifications supplied by raw materials manufacturers.					
QUALICOAT REQUIREMENTS					
The residual gloss shall be at least 50% of the original gloss. The ΔE values shall not exceed the maximum values prescribed in the annexed table (see Appendix A7 of Qualicoat Specifications).					
Mod_TR_02_rev02		Laboratory GIColor		Date: 31/03/2016	
				ID Report: TR-NE-20-2016	

Picture 5: Test report on 12 months Florida natural weathering test of IceTouch-003.

Dedicated marketing material:

- MRK-005-0194



- MRK-005-0253



- MRK-005-0686



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