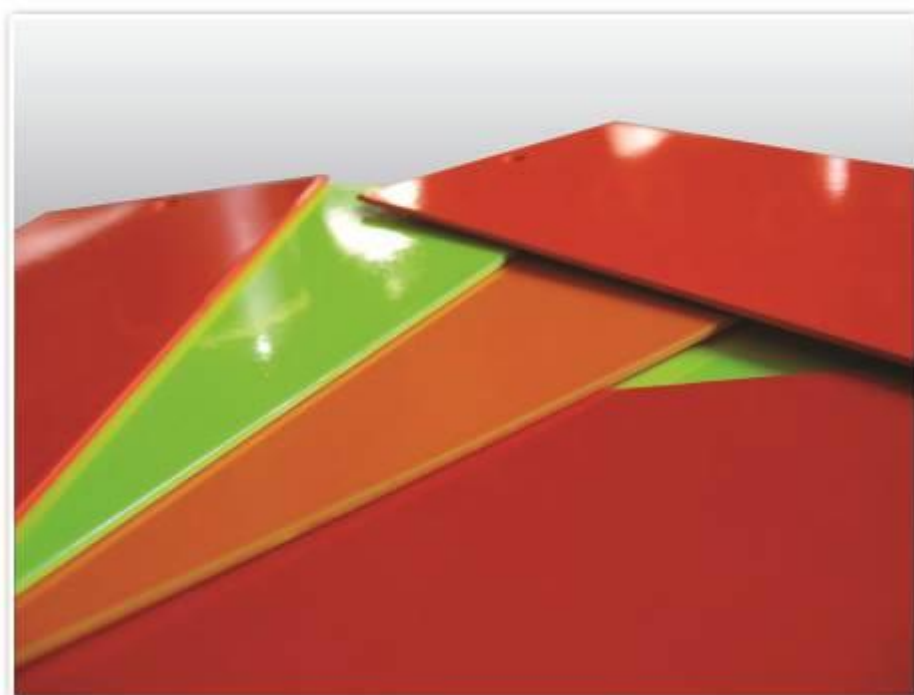




DALÌ and DALÌMATT SERIES

DALÌ-XXX

DALÌMATT-XXX



Information:

1. TECHNICAL INFORMATION
2. PRODUCTS AVAILABLE FROM STOCK
3. HIDING POWER TEST
4. ANTI-GRAFFITI TEST
5. ACCELERATED WEATHERING TEST
6. WET CLIMATES RESISTANCE TEST
7. MARKETING MATERIAL

DALÌ and DALÌMATT SERIES

Fluorescent powder coatings

1. TECHNICAL INFORMATION

• TECHNICAL DATA

Chemical nature	Polyester
Finish	Smooth, glossy or matt
Class of resistance	INDOOR ONLY
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:

- 25 minutes at 175°C – 347°F (metal temperature).
- **20 minutes at 180°C – 356°F (metal temperature).**
- 15 minutes at 190°C – 374°F (metal temperature).

Recommended thickness: 70-80 micron.

A double-layer coating is recommended on white base coat PE411 (special polyester formulated to achieve a perfect adhesion), in order to highlight the fluorescent effect.

• 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 detachment: ok
Acetic salt spray	ISO 9227	corrosion <4 mm: ok

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2. PRODUCTS AVAILABLE FROM STOCK

● SMOOTH GLOSSY VERSION: DALÌ-XXX (gloss 80±20)

DALÌ-001	(equivalent RAL: 2005)
DALÌ-002	(equivalent RAL: 1026)
DALÌ-003	(equivalent RAL: 2007)
DALÌ-004	(equivalent RAL: 3026)
DALÌ-005	(equivalent RAL: 6038)
DALÌ-006	
DALÌ-007	
DALÌ-008	
DALÌ-009	
DALÌ-010	
DALÌ-011	(equivalent RAL: 3024)

● SMOOTH MATT VERSION: DALÌMATT-XXX (gloss 20±10)

DALÌMATT-001	(equivalent RAL: 2005)
DALÌMATT-002	(equivalent RAL: 1026)
DALÌMATT-003	(equivalent RAL: 2007)
DALÌMATT-004	(equivalent RAL: 3026)
DALÌMATT-005	(equivalent RAL: 6038)
DALÌMATT-006	
DALÌMATT-007	
DALÌMATT-008	
DALÌMATT-009	
DALÌMATT-010	
DALÌMATT-011	(equivalent RAL: 3024)

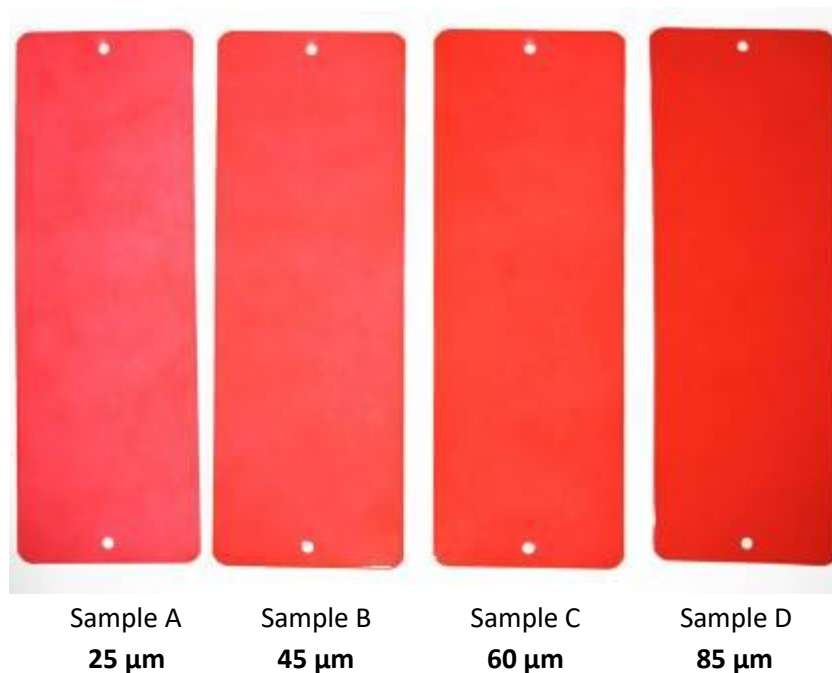
N.B. – The anti-graffiti version of powders listed above is available on customer's request.

DALÌ and DALÌMATT SERIES

Fluorescent powder coatings

3. HIDING POWER TEST

Four samples are shown here below, as a demonstration of the pale pigmentation of this series (which involves a low hiding power): each panel has been coated with a first layer of white powder (PE411); then a second layer of Sublidalì-004 (increase of layer thickness, from left to right) has been applied.



4. ANTI-GRAFFITI TEST

The *Anti-graffiti* variant has been purposely formulated for the Dalì series; the “anti-graffiti” properties have been compared with a standard powder, applying different staining agents on samples coated respectively with PE411 + Dalì-001 and PE411 + Dalì-001 “*Antigraffiti*”. The test includes the following stages:

- Soiling with: lipstick, marker, N50 pentel, black acrylic spray;
- Drying of the staining agents in an oven at 80°C (176°F) for 120’;
- Conditioning at 23°C (73.4°F) for at least 120’ with relative humidity at 50%;
- Removing of the staining agents with commercial ethylic alcohol;
- Removing of the staining agents with a mixture of etasol/MEK 70:30.

DALÌ and DALÌMATT SERIES

Fluorescent powder coatings

Comparative test on powder-coating sample of PE 411 + Dalì-001 and PE 411 + Dalì-001 Anti-graffiti



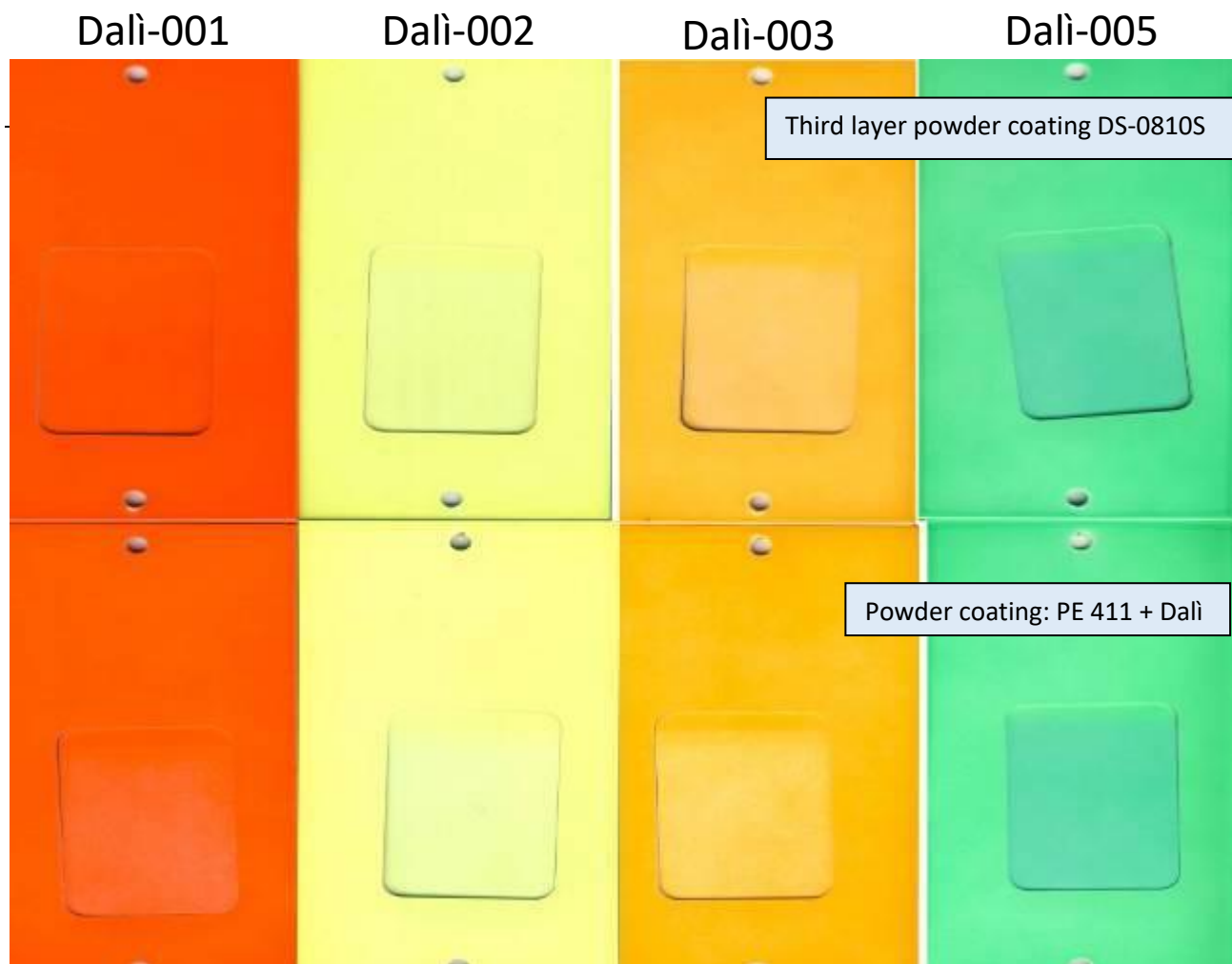
As can be seen in the picture above, despite the cleaning with ethylic alcohol and etasol/MEK 70:30, the sample coated with PE 411 + Dalì-001 still shows the presence of staining agents (*pentel N50*) and halos. Instead, the sample coated with PE 411 + Dalì-001 *Anti-graffiti* has kept its initial aspect after cleaning.

DALÌ and DALÌMATT SERIES

Fluorescent powder coatings

5. ACCELERATED WEATHERING TEST

The resistance to weather conditions of a triple-layer-coated sample (PE 411 + Dalì + DS-0810S) has been compared with a standard double-layer-coated sample (PE 411 + Dalì) through the accelerated weathering test. The test consists in leaving the sample in the accelerated weathering machine and then measuring the colour variation.



Samples after 100 hours of accelerated weathering test

CONCLUSION

After only 100 hours the test has been suspended. The result proved that the powders of the Dalì series are only suitable for indoor use as the colour variation is clearly visible to the naked eye.

By adding a third layers of class 2 powder (DS-0810S), the resistance level was still not high enough to make it suitable for outdoor use, therefore, whatever method of application is chosen, the powders of Dalì series ARE NOT SUITABLE FOR OUTDOOR USE.

DALÌ and DALÌMATT SERIES

Fluorescent powder coatings

6. WET CLIMATES RESISTANCE TEST

The resistance to humid atmospheres has been tested on two sample: one double coated with PE 411 + Dalì powders and the other triple coated with PE 411 + Dalì + DS-0810S powders (60 µm). the test includes the following stages:

- Cross-cut incision (1mm width) on the samples surface;
- 1000-hour test in humid atmospheres;
- Comparison of the test results.

Dalì-001

Dalì-002

Dalì-003

Dalì-005



Comparison of the test results after 1000 hours

CONCLUSION

As can be seen in the picture above, we have an excellent adhesion between the PE 411 layers and the Dalì powder layer; thereby confirming the specific formulation of PE 411 as first layer powder coating.

DALÌ and DALÌMATT SERIES

Fluorescent powder coatings



Comparison of the test results after 1000 hours

CONCLUSION

As can be seen in the picture above, despite the addition of a third layer of powder coating (DS-0810S) on a standard double layer products (PE 411 + Dalì), there are no adhesion defects between the second and the third layer of products.

7. MARKETING MATERIAL

● PACKAGING



Cardboard packaging; standard box 25 kg net weight; mini box for smaller quantities also available.

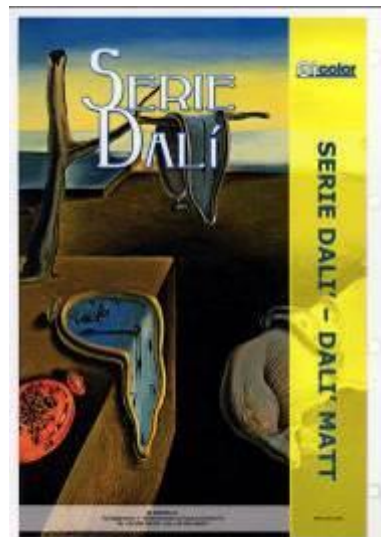
DALÌ and DALÌMATT SERIES

Fluorescent powder coatings



A3 catalogue with aluminum samples

A4 catalogue
with aluminium
samples



Set of 8 aluminum
coated panels

A FREE A4 catalogue with aluminum samples or a set of 8 aluminum coated panels will be delivered with every purchase order of 20 kg of product.

The marketing material can be customized upon request.



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