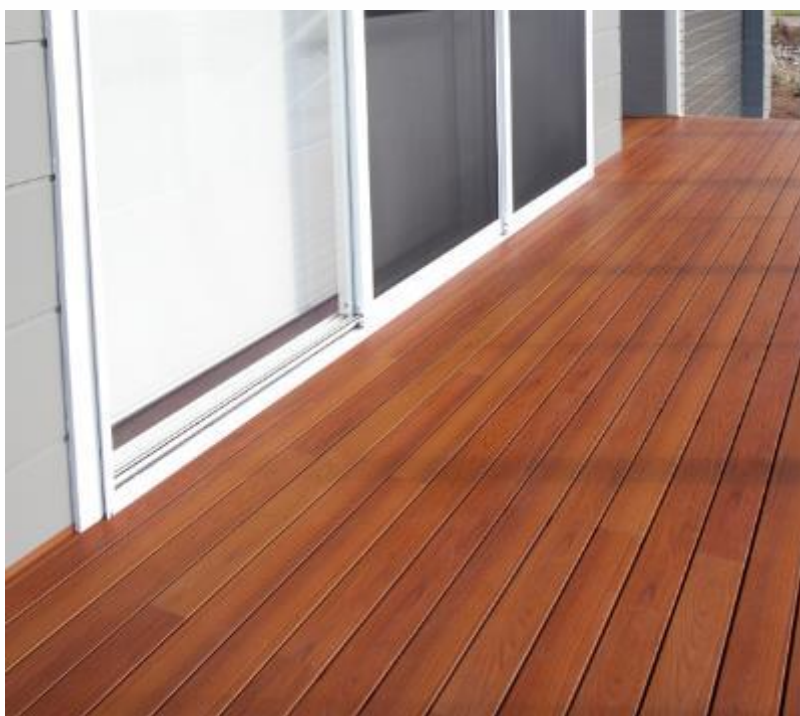


8L-XXX-A016 SERIES
(DS 7XXI)

Powder-coatings with special surface



Information:

1. *Product features*
2. *Technical information*
3. *Variants and special formulations*
4. *Sublimable version*
5. *Possible usage and applications*
6. *Abrasion test*
7. *Resistance and no-skid certification*

NO-SKID

Powder-coating with special surface



1. Product features

The main feature of the *8L-XXX-A016* (previous code: *DS 7XXI*) series is their textured anti-skid surface: their special composition, indeed, allows a surface that feels very rough but at the same time soft when it is touched.

This peculiar characteristic also affords a typical aspect to the color and to the way these powders reflect the light.



Picture 1: Anti-skid floor coated with 8G-XXX-A016 powder decorated with heat-transfer technology.

2. Technical information

- Technical data

Powder type	Polyurethane
Class resistance	Class 1 or Class 2
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).

Reccomended thickness: 60 microns – yield 13.1 m²/Kg,

70 microns – yield 11.2 m²/Kg,

80 microns – yield 9.8 m²/Kg.

- Mechanical properties

Test	Standard reference	Result
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

NO-SKID

Powder-coating with special surface



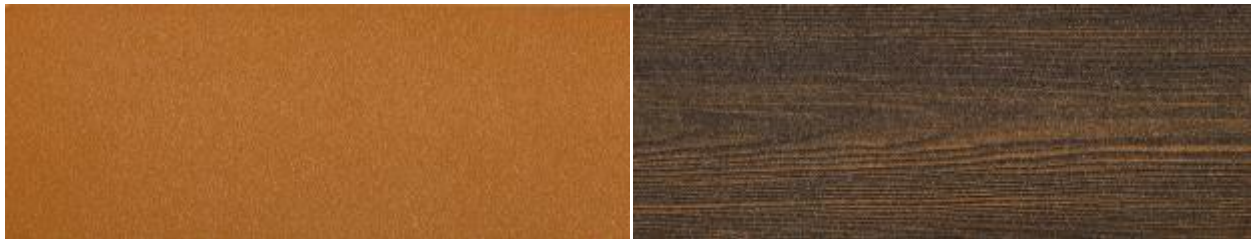
3. Variants and special formulations

Variants are available for the *no-skid* series, and some features of this powder can be modified on demand of the customer. It is possible to produce it:

- Class 2 (code: 9L-XXX-A072 or DS-07XXIS);
- Antimicrobial (code: 8L-XXX-A017 or DS-07XXIF);
- Matching RAL references.

4. Sublimable version

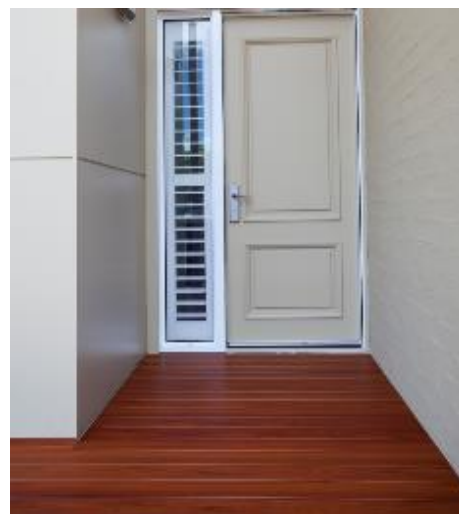
With the heat-transfer technology, it is possible to make an already special surface unique.



Picture 2: Sample panel coated with DS 725I (on the left) and DS 725I with heat-transfer film 2117/03 (on the right).

5. Possible usage and applications

This series finely suits the coating of handles, shelves and technical furniture, floor tiles (low duty) and all the surfaces where the particular antiskid feature can result in an add value.

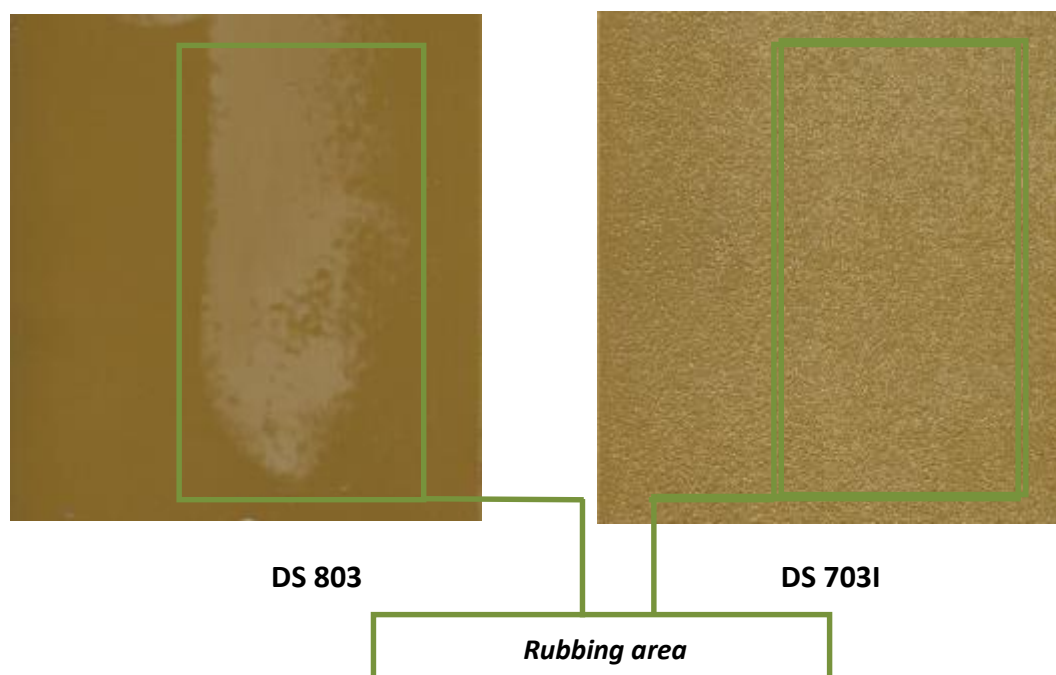


6. Abrasion test

Decoral Lab use the abrasion test to evaluate the resistance to clomping and abrasion of this series of powder.

In this test the coated surface of a sample panel is rubbed with sand paper (CAMI grit designation: 600 – FEPA grit designation: P1200 – average particle diameter: 16 μm), over which is applied a weigh of 1 kg, for 100 consecutive passes.

The test is performed over two different sample panels: the first one is coated with a standard powder (DS 803), and the other one is coated with a No-skid powder (DS 703I); in this way is easier to evaluate comparatively the increase of resistance to abrasion that occurs with No-skid powders.



Picture 3: Abrasion test on two panels coated with a standard powder (on the left) and a No-skid powder (on the right).

Weight: 1 kg

Grit designation of sand paper: CAMI 600 – FEPA P1200

Number of consecutive passes: 100

As shown in picture above, the surface of sample panel coated with No-skid powder is only slightly damaged by abrasion of 100 passes of sand paper; the same conditions over a sample panel coated with a standard powder lead to severe damage of surface.

7. Resistance and no-skid certification

External certification authority has tested no-skid powders, by performing the determination of resistance to surface abrasion test, the determination of chemical resistance test and the determination of the anti-slip proprieties test. All the results of this test, conducted in accordance with ISO standard using DS-0725IS+2505/01, are shown into the following certifications.

NO-SKID

Powder-coating with special surface



CENTRO DI RICERCA E SPERIMENTAZIONE
PER L'INDUSTRIA CERAMICA

TEST LABORATORY

Test Report No. **5043/16**

Sassuolo, 25/07/16

Requested by:	DECORAL SYSTEM S.r.l. Viale del Lavoro, 5 - 37040 ARCOLE (VR)		
For the sample:	Painted metal sheets marked "DS 0725 IS + 2505/01":		
On (date):	29/06/16	Date of receipt in laboratory (sample delivered by the client): 30/06/16	
Test date	From: 05/07/16		To: 05/07/16

EN ISO 10545-7 – Determination of resistance to surface abrasion

ABRASION STAGE:

PEI, failure visible at (rev.):

750

Test solutions	Resistance class (ISO 10545-14)				
	Test specimen 1	Test specimen 2	Test specimen 3	Test specimen 4	Test specimen 5
Stains					
Chrome green in light oil	-----	-----	-----	-----	-----
Iodine (alcoholic solution 13g/l)	-----	-----	-----	-----	-----
Olive oil (def. Olive Oil Agreement - 1979)	-----	-----	-----	-----	-----

CLASSIFICATION:

Abrasion class:

3

Stain resistance class - References

Resistance class 1: Stain not removed.

Resistance class 2: Stain removed by dipping in a suitable solvent for 24 hours.

Resistance class 3: Stain removed by mechanical cleaning and strong cleansing agent.

Resistance class 4: Stain removed by manual cleaning with weak cleansing agent.

Resistance class 5: Stain removed by means of hot current water for 5 min.

Eng. Giordana Carani
Technical approval

Prof. Maria Chiara Bignozzi
Director



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Fax +39 0536 800662



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PER L'INDUSTRIA CERAMICA

TEST LABORATORY

Test Report No. **5044/16**

Sassuolo, 25/07/16

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For the sample:	Painted metal sheets marked "DS 0725 IS + 2505/01":				
On (date):	29/06/16	Date of receipt in laboratory (sample delivered by the client): 30/06/16			
Test date	From: 06/07/16		To: 11/07/16		

EN ISO 10545-13 § 8 - Determination of chemical resistance

Test solutions	Class of resistance				
	Test specimen 1	Test specimen 2	Test specimen 3	Test specimen 4	Test specimen 5
Household Chemicals:					
Ammonium Chloride 100g/l	A(V)	A(V)	A(V)	A(V)	A(V)
Swimming pool salts:					
Sodium hypochlorite 20mg/l	A(V)	A(V)	A(V)	A(V)	A(V)
Acids:					
Hydrochloric acid 3% V/V	LA(V)	LA(V)	LA(V)	LA(V)	LA(V)
Citric acid 100g/l	LA(V)	LA(V)	LA(V)	LA(V)	LA(V)
Alkali:					
Potassium Hydroxide 30g/l	LB(V)	LB(V)	LB(V)	LB(V)	LB(V)
Acids:					
Hydrochloric acid 18%V/V	HB(V)	HB(V)	HB(V)	HB(V)	HB(V)
Lactic acid 5% V/V	HA(V)	HA(V)	HA(V)	HA(V)	HA(V)
Alkali:					
Potassium Hydroxide 100g/l	HB(V)	HB(V)	HB(V)	HB(V)	HB(V)

CLASSIFICATION (Pencil test and/or reflexion test are not applicable:)

L: Low concentration chemicals
H: High concentration chemicals

Class A(V): no visible effect
Class B(V): definitive change in appearance
Class C(V): partial or complete loss of the surface

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NO-SKID

Powder-coating with special surface



CENTRO DI RICERCA E SPERIMENTAZIONE
PER L'INDUSTRIA CERAMICA

TEST LABORATORY

Test Report No. **5045/16**

Sassuolo, 25/07/16

Requested by:	DECORAL SYSTEM S.r.l. Viale del Lavoro, 5 - 37040 ARCOLE (VR)		
For the sample:	Painted metal sheets marked "DS 0725 IS + 2505/01":		
On (date):	29/06/16	Date of receipt in laboratory (sample delivered by the client): 30/06/16	
Test date		From: 01/07/16	To: 01/07/16

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

RESULTS

Average total acceptance angle:

Movement area (cm³/dm²):

13,3°

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

Movement area evaluation group:

R10

Eng. Giordana Carani

Technical approval

Prof. Maria Chiara Bignozzi

Director

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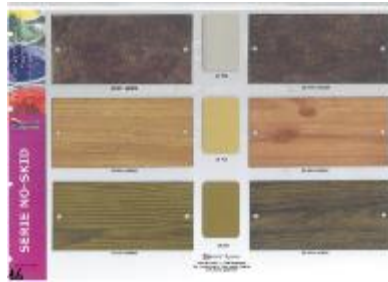
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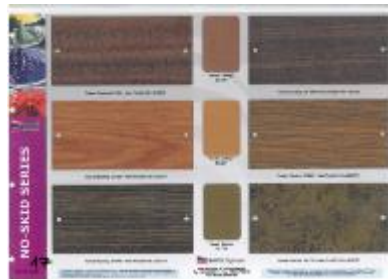
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Dedicated marketing material:

- MRK-005-0021R1



- MRK-005-0020R2



Marchi di qualità registrati di Decoral System:



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