

Reaction to fire classification report No. 17485F

Owner of the classification report

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Introduction

This classification report defines the classification assigned to the product 'DuPont™ Corian® DeepColour™' in accordance with the procedures given in the standard EN 13501-1:2007+A1:2009: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

This classification report consists of 6 pages

1. DETAILS OF CLASSIFIED PRODUCT

a) Nature and end use application

The product **DuPont™ Corian® DeepColour™** is defined as a 'composite panel'.

Its classification is valid for the following end use application(s):

Used as solid surface material in construction and decorative applications, interior and exterior.

b) Description of the tested product

This description is based on information given by the sponsor.

Nominal value	
DuPont™ Corian® DeepColour™	
Type of product	The tested product is solid, non-porous, homogeneously surfacing material composed of $\pm 1/3$ acrylic resin (also known as PolyMethyl MethAcrylate or PMMA), and $\pm 2/3$ Aluminum Trihydtrate (ATH) and pigments.
Manufacturer	DuPont (Korea) Inc.
Supplier	Du Pont de Nemours Belgium bvba
Thickness (mm)	12,0 \pm 0,6
Density (kg/m ³)	1680 – 1750
Colour	Deep Anthracite, Deep Nocturne, Deep Cloud, Deep Titanium, Deep Sable, Deep Espresso, Deep Night Sky, Deep Caviar, Deep Black Quartz, Deep Storm, Deep Space, Deep Bedrock & Deep Mink.
Use of fire retardants	No

More details are available in the test reports in support of this classification (§2a).

2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

a) Test reports

Name of the laboratory	Name of the sponsor	Test report ref. No. and test date	Test method
WFRGENT nv Ghent, Belgium	Du Pont de Nemours Belgium bvba Mechelen, Belgium	16275D: 12/11/2013 17485D: 16/03/2016	EN ISO 11925-2 (November 2010/AC:2011)
WFRGENT nv Ghent, Belgium	Du Pont de Nemours Belgium bvba Mechelen, Belgium	16275E: 12/11/2013	EN 13823 (July 2010)
		17485C: 11/03/2016	EN 13823 (July 2010+A1:2014)
WFRGENT nv Ghent, Belgium	Du Pont de Nemours Belgium bvba Mechelen, Belgium	17485E	EXAP according to CEN/TS 15117 (August 2005)

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class B-s1,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) (1) 30 s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - mid point 1,5 mm behind surface	$F_s \leq 150$ mm Ignition filter paper	6	(-)	Yes	(-)	Yes
			(-)	No	(-)	No
	$F_s \leq 150$ mm Ignition filter paper	6	(-)	Yes	(-)	Yes
			(-)	No	(-)	No
EN ISO 11925-2 (*) (2) 30 s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - mid point 1,5 mm behind surface	$F_s \leq 150$ mm Ignition filter paper	6	(-)	Yes	(-)	Yes
			(-)	No	(-)	No
	$F_s \leq 150$ mm Ignition filter paper	6	(-)	Yes	(-)	Yes
			(-)	No	(-)	No

(*) The material didn't melt nor pull away from the pilot burner.

(1) Based on the results obtained in test report No. 16275D – Corain® Deep Anthracite.

(2) Based on the results obtained in test report No. 17485D – Corian® Deep Black Quartz.

Test method	Parameter	Number of tests	Results		Criteria for Class B-s1,d0		
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters	
EN 13823 (3)	FIGRA _{0,2 MJ} (W/s)	3	28	(-)	≤ 120	(-)	
	FIGRA _{0,4 MJ} (W/s)		28	(-)	(-)	(-)	
	LFS _{<edge}		(-)	Yes	(-)	Yes	
	THR _{600s} (MJ)		4,2	(-)	≤ 7,5	(-)	
	SMOGRA (m ² /s ²)		0	(-)	≤ 30	(-)	
	TSP _{600s} (m ²)		17	(-)	≤ 50	(-)	
	Flaming droplets/particles						
	f < 10 s		(-)	No	(-)	No	
	f > 10 s		(-)	No	(-)	No	
EN 13823 (4)	FIGRA _{0,2 MJ} (W/s)	3	47	(-)	≤ 120	(-)	
	FIGRA _{0,4 MJ} (W/s)		47	(-)	(-)	(-)	
	LFS _{<edge}		(-)	Yes	(-)	Yes	
	THR _{600s} (MJ)		7,0	(-)	≤ 7,5	(-)	
	SMOGRA (m ² /s ²)		0	(-)	≤ 30	(-)	
	TSP _{600s} (m ²)		23	(-)	≤ 50	(-)	
	Flaming droplets/particles						
	f < 10 s		(-)	No	(-)	No	
	f > 10 s		(-)	No	(-)	No	
(3) Based on the results obtained in test report No. 16275E – Corain® Deep Anthracite.							
(4) Based on the results obtained in test report No. 17485C – Corian® Deep Black Quartz.							

(-) Not applicable.

3. CLASSIFICATION AND FIELD OF APPLICATION

a) Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

b) Classification

The product **DuPont™ Corian® DeepColour™** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
B	s1	d0

c) Field of application

This classification for the product as described in §1b, is valid for the following end use conditions:

- Substrate: Euroclass A2-s1,d0 or better with a nominal thickness of at least 9 mm and a nominal density of at least 652,5 kg/m³.
- Without air gap.
- Fixing: Directly glued onto the substrate using Fix All High Tack glue (Soudal) with a PCS value lower than or equal to 2,87 MJ/m².
- Without joints.

This classification is valid for the following product parameters:

- Nominal thickness: (12,0 ± 0,6) mm
- Nominal density: 1680 kg/m³ – 1750 kg/m³
- Colours: Deep Anthracite, Deep Nocturne, Deep Cloud, Deep Titanium, Deep Sable, Deep Espresso, Deep Night Sky, Deep Caviar, Deep Black Quartz, Deep Storm, Deep Space, Deep Bedrock, Deep Mink and all deep colours with a PCS value lower than or equal to 11,5 MJ/kg
- Use of fire retardants: No

4. RESTRICTIONS

At the time the standard EN 13501-1:2007+A1:2009 was published, no decision was made concerning the duration of validity of a classification report.

Provisions of Regulation (EU) 305/2011, commonly known as the Construction Products Regulation (CPR), prevail over any conflicting provisions in the harmonised standards and technical specifications.

5. WARNING

This classification report does not represent type approval nor certification of the product.

According to the information mentioned by the sponsor on the technical information sheet there was no product standard for CE marking available at the time the classification report for the tested material/product was drafted.

When such a product standard is published, this report may be submitted again to the laboratory to evaluate the adequacy of the report for CE marking.

The sponsor of this report has nevertheless committed himself to a System 3 Assessment and Verification of Constancy of Performance (AVCP).

PREPARED BY

APPROVED BY

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