

# classification report

**Title:**

CLASSIFICATION OF  
REACTION TO FIRE  
PERFORMANCE  
IN ACCORDANCE WITH  
EN 13501-1: 2007

**Notified Body No:**

0833

**Product Name:**

Corian® Solid Surface  
Sheeting

**Report No:**

185122

**Issue No:**

1

**Prepared for:**

DuPont De Nemours  
(Belgium) NV  
Corian Department  
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**Date:**

20<sup>th</sup> July 2009

## 1. Introduction

This classification report defines the classification assigned to Corian® Solid Surface Sheeting in accordance with the procedures given in EN 13501-1:2007

## 2. Details of classified product

### 2.1 General

The product, Corian® Solid Surface Sheeting, is defined as being suitable for wall or ceiling applications, excluding flooring and linear pipe thermal insulation.

### 2.2 Product description

The product, 'Corian® Solid Surface Sheeting', is fully described below and in the test reports provided in support of classification listed in Clause 3.1.

General description		Solid Surface Sheeting
Product reference of wall covering		CORIAN® SOLID SURFACE SHEETING
Name of manufacturer		E. I. du Pont de Nemours and Company
Overall thickness		6 to 12.3 ± 0.7mm mm (Stated by sponsor) 12.5mm (Determined by Exova warringtonfire)
Total density		1645kg/m <sup>3</sup> to 1770kg/m <sup>3</sup> . (Stated by sponsor) 1744g/ m <sup>3</sup> (Determined by Bodycote warringtonfire)
Colour		Any
Fire Retardants		The sponsor has stated that this product does not contain FR additives
Composition of Product		The product comprises a mixture of polymethylmethacrylate resin, pigments and mineral fillers.
Adhesive	Product reference	"Corian®" silicone sealant
	Generic type	Silicone
	Name of manufacturer	E. I. du Pont de Nemours and Company
Substrate	Generic type	Gypsum Plasterboard
	Supplier	Knauf
	Thickness	9.5mm
Description of Manufacturing Process		Note 1

Note 1: The sponsor of the test has provided this information which is held on confidential file at Exova Warringtonfire

### 3. Test reports/extended application reports & test results in support of classification

#### 3.1 Test reports/extended application reports

Name of Laboratory	Name of sponsor	Test reports/extended application report Nos.	Test method / extended application rules & date
Warrington Fire Research Centre	DuPont Corian, DuPont De Nemours B.V	WARRES 128274, 128277, 130652, 130652, 130653, 130654	EN 13823
Warrington Fire Research Centre	DuPont Corian, DuPont De Nemours B.V	WARRES 128424, 128422, 130655, 130656, 130657, 130658	EN ISO 11925-2

#### 3.2 Test results

Test Method	Parameter	Number of Tests	Results	
			Continuous Parameter - mean (m)	Compliance Parameters
EN ISO 11925-2  30s exposure surface 30s exposure edge  flaming droplets/particles	$F_s \leq 150\text{mm}$	6, 6	0, 0, 0, 0, 0, 0	Y
	$F_s \leq 150\text{mm}$	6, 6	18, 22, 10, 10, 10, 10	Y
	No ignition of filter paper		(-), (-)	Y
EN 13823	FIGRA $_{0.2\text{MJ}} \leq 120 \text{ W/s}$	3, 3, 3, 3	49.49, 69.68, 73.11, 80.20, 83.61, 82.17	Y
	THR $_{600\text{s}} \leq 7.5 \text{ MJ}$		7.88, 11.12, 9.77, 12.56, 13.07, 13.19	Y
	LFS < edge		No	Y

	<b>SMOGR<sub>A</sub> ≤ 30 m<sup>2</sup>/s<sup>2</sup></b>		<b>0,0, 0.44, 0.41, 0, 0</b>	<b>Y</b>
	<b>TSP<sub>600s</sub> ≤ 50 m<sup>2</sup></b>		<b>8.21, 7.14, 8.48, 15.75, 9.61, 8.07</b>	<b>Y</b>

#### 4. Classification and field of application

##### 4.1 Reference of classification

This classification has been carried out in accordance with clause 8 of EN 13501-1:2007

##### 4.2 Classification

The product, Corian® Solid Surface Sheetting, in relation to its reaction to fire behaviour is classified:

**C**

The additional classification in relation to smoke production is:

**s1**

The additional classification in relation to flaming droplets / particles is:

**d0**

The format of the reaction to fire classification for construction products is:

Fire Behaviour	Smoke Production			Flaming Droplets	
	<b>C</b>	<b>s</b>	<b>1</b>	<b>,</b>	<b>d</b>

ie **C – s1 , d0**

**Reaction to fire classification: C – s1, d0**

#### 4.3 Field of application

This classification is valid for the following end use applications:

- i) Construction applications used over any substrate with a density equal to or greater than 1800kg/m<sup>3</sup>, having a minimum thickness of 6mm and a fire performance of A2 or better.
- ii) Product installed utilising Corian® silicone sealant only.

This classification is also valid for the following product parameters:

Product thickness	Between 6mm and 12.3mm ( $\pm 0.7$ mm)
Product density	Between 1645kg/m <sup>3</sup> and 1770kg/m <sup>3</sup>
Product composition	No variation allowed
Product colour/pattern	Any colour variation allowed
Product construction	No variation allowed

#### 5. Limitations

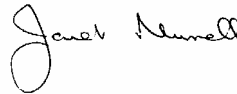
This document does not represent type approval or certification of the product

##### SIGNED



.....  
**Simon Ince**  
Technical Officer  
Technical Department

##### APPROVED



.....  
**Janet Murrell**  
Technical Manager  
Technical Department  
on behalf of:  
**Bodycote warringtonfire**

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## ANNEX 1

The following list of products are those in the DuPont De Nemours (Belgium) NV range which comply with the description of product for which this classification applies:

CORIAN® GENESIS  
CORIAN® SIERRA  
CORIAN® SUMMIT  
CORIAN® PARTICLE LOOK DESIGNER SERIES  
CORIAN® VENARO  
CORIAN® SOLID COLOUR DESIGNER SERIES  
CORIAN® JEWEL  
CORIAN® MAGNA  
CORIAN® LUSTRA



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