



## The National BIM Library

BIM Object Guide: DuPont™ Corian® Solid Surface



Version 1.0

11<sup>th</sup> December 2013

[www.nationalBIMlibrary.com](http://www.nationalBIMlibrary.com)

## Contents

1.0 Introduction .....	3
1.1 Naming.....	3
2.0 Parameters .....	7
2.1 National BIM Library Parameters.....	7
2.2 NBS Parameters.....	8
2.3 Manufacturers Parameters .....	8
2.4 IFC Parameters .....	10
2.5 COBie Parameters .....	11
3.0 Abbreviations .....	13

## 1.0 Introduction

This guide covers the use of DuPont™ Corian® Solid Surface included within the National BIM Library.

### DuPont™ Corian® Solid Surface



All products listed below are included in the following file:

nbl\_PlstcsCompMtrlBrds\_DuPontCorian\_DuPontCorianSolidSurface

Abalone  
Absolute Beige  
Antarctica  
Anthracite  
Aqua  
Arctic Ice  
Arrowroot  
Athena Gray  
Aurora  
Aztec Gold  
Beige Fieldstone  
Beryl Blue  
Bisque  
Black Quartz  
Blooming Green  
Blueberry Ice  
Bone  
Burled Beach  
Cameo White

Canyon  
Chic Aubergine  
Citrus Orange  
Clam Shell  
Clay  
Cocoa Brown  
Coffee Bean  
Deep Gray  
Designer White  
Diamond Blue  
Distinct Tan  
Dove  
Dusk  
Eclipse  
Elegant Gray  
Ethereal Azure  
Everest  
Fossil  
Glacier Ice  
Glacier White  
Grand Brown  
Grape Green  
Gravel  
Hot  
Ice White  
Imperial Yellow  
Juniper  
Lava Rock  
Light Ash  
Lime Ice  
Linen  
Matterhorn  
Medea  
Midnight  
Mint Ice  
Mojave

Mont Blanc  
Night Sky  
Noble Ecu  
Nocturne  
Pearl Gray  
Platinum  
Private Gray  
Raffia  
Rosemary  
Royal Red  
Sagebrush  
Sand  
Sahara  
Sandstone  
Savannah  
Seagrass  
Serpentine Green  
Shale  
Sienna Brown  
Silt  
Silver Birch  
Silver Gray  
Silverite  
Sonora  
Vanilla  
Venaro White  
Warm Gray  
White Jasmine  
Whitecap

## 1.1 Naming

National BIM Library objects are named to identify their type and configuration. Fields are segregated using an under bar (\_) and information within each field is segregated using hyphens (-). Fields are abbreviated to reduce characters and capitals used at the start of each abbreviation to aid readability.

File name and objects are named as below:

### File name

**Field1** *Author\_* **Field2** *Category\_* **Field3** *Manufacturer\_* **Field4** *Product Range*

### Object

**Field1** *Author\_* **Field2** *Category* **Field3** *Manufacturer\_* **Field4** *Product\_* **Field5** *Differentiator*

## 2.0 Parameters

Parameters included in the DuPont™ Corian® Solid Surface BIM object are as follows:

### 2.1 National BIM Library Parameters

<b>Author</b>	The name of the BIM objects Author.
<b>BIMObjectName</b>	Name of the BIM object as it will appear in software. Using NBL naming procedure.
<b>Description</b>	The full description of a product or system.
<b>Help</b>	URL of a website where additional help notes are available.
<b>IssueDate</b>	The issue date of this BIM object.
<b>ManufacturerURL</b>	URL of the product or system manufacturer.
<b>NBSDescription</b>	NBS Uniclass title.
<b>NBSNote</b>	Where a second system which is related to the BIM object can be described.
<b>NBSReference</b>	NBS Uniclass section/clause number.
<b>NBSTypeID</b>	A reference to the object for the user if one or more is used within the project.
<b>Uniclass2</b>	Uniclass2 code.
<b>Version</b>	The version number of the BIM object.

## 2.2 NBS Parameters

**AdditionalRequirements** Any additional requirement for the product to be listed here.

**Fixing** Fixing options for the product.

## 2.3 Manufacturers Parameters

**AntiSlipProperties** A description of the product performance to BS EN ISO 846. Plastics. Evaluation of the action of microorganisms.

**BacteriaAndFungiResistance** A description of the product performance to BS EN ISO 846. Plastics. Evaluation of the action of microorganisms.

**BoilingWaterResistance** A description of the product performance to ISO 4586 T7.

**BreakElongation** A description of the product performance to BS EN ISO 178. Plastics -Determination of flexural properties.

**CompressiveStrength** A description of the product performance to BS EN ISO 604. Plastics. Determination of compressive properties.

**Density** A description of the product performance to BS EN ISO 1183. Plastics. Methods for determining the density of non-cellular plastics Immersion method, liquid pycnometer method and titration method

**DimensionalStability** A description of the product performance to ISO 4586 T10.

**DryHeatResistance** A description of the product performance to ISO 4586 T8. High-pressure decorative laminates - Sheets made from thermosetting resins.

**FlexuralModulus** A description of the product performance to BS EN ISO 178. Plastics. Determination of flexural properties.



<b>FlexuralStrength</b>	A description of the product performance to BS EN ISO 178. Plastics. Determination of flexural properties.
<b>ImpactResistance</b>	A description of the product performance to ISO 4586 T11. High-pressure decorative laminates - Sheets made from thermosetting resins.
<b>Lightfastness</b>	A description of the product performance to ISO 4586 T16. High-pressure decorative laminates - Sheets made from thermosetting resins.
<b>SizeOptions</b>	Available options of the size of the product measured in [mm].
<b>SurfaceHardness</b>	These values provide a relative measure of the surface hardness for each respective product. To BS EN 101.
<b>SurfaceWearResistance</b>	A description of the product performance to ISO 4586 T6. High-pressure decorative laminates - Sheets made from thermosetting resins.
<b>ThicknessOptions</b>	Available options of the thickness of the product measured in [mm].

## 2.4 IFC Parameters

Note: IFC definitions have been obtained from BuildingSmart IFC2x3 website (<http://buildingsmart-tech.org>).

<b>AcousticRating</b>	Acoustic rating for this object. It is given according to the national building code. It indicates the sound transmission resistance of this object by an index rating (instead of providing full sound absorption values).
<b>Combustible</b>	Indication whether the object is made from combustible material (TRUE) or not (FALSE).
<b>Finish</b>	Finish selection for this object. Specification of the surface finish for informational purposes.
<b>FireRating</b>	Fire rating for this object. It is given according to the national fire safety classification.
<b>FlammabilityRating</b>	Flammability Rating for this object. It is given according to the national building code that governs the rating of flammability for materials.
<b>FragilityRating</b>	Indication on the fragility of the covering (e.g., under fire conditions). It is given according to the national building code that might provide a classification for fragility.
<b>Material</b>	Main material of the covering, it should only be given, if no IfcMaterial class is assigned to the IfcCovering instance.
<b>SurfaceSpreadOfFlame</b>	Indication on how the flames spread around the surface, It is given according to the national building code that governs the fire behaviour for materials.
<b>TotalThickness</b>	Thickness of the covering, The thickness information is provided in addition to the shape representation and the geometric parameters used within. In cases of inconsistency between the geometric parameters and the shape properties, provided in the attached property, the geometric parameters take precedence.

## 2.5 COBie Parameters

The following COBie parameters have been included within the DuPont™ Corian® Solid Surface BIM object and can be used to prepare COBie data schedules:

<b>AccessibilityPerformance</b>	Accessibility issue(s) which the product satisfies.
<b>AssetIdentifier</b>	The asset identifier assigned to an occurrence of a product (prior to handover).
<b>BarCode</b>	The identity of the bar code (or rfid) given to an occurrence of the product.
<b>CodePerformance</b>	Code Compliance requirement(s) which the product satisfies.
<b>Colour</b>	Characteristic or primary colour of product.
<b>Constituents</b>	Optional constituent features, parts or finishes.
<b>Cost</b>	Cost impact of replacement process.
<b>Documentation</b>	Location (Uniform Resource Information) for further product information.
<b>DocumentReference</b>	Location (Uniform Resource Information) for the source or updates to this product information.
<b>Features</b>	Features or other important characteristics relevant to product specification.
<b>Finish</b>	Characteristic or primary finish of product.
<b>Grade</b>	Standard grading(s) to which the product corresponds.
<b>InstallationDate</b>	The date that the manufactured item was installed.
<b>LifeCyclePhase</b>	Life Cycle Phase as defined in ISO 15978.
<b>Manufacturer</b>	The organization that manufactured or assembled the item.
<b>Material</b>	Main material of the covering.
<b>MethodOfMeasurement</b>	Method of measurement.
<b>ModelLabel</b>	The model number assigned by manufacturer.

<b>ModelReference</b>	The name used by the manufacturer.
<b>NominalHeight</b>	Nominal height of product, typically the vertical or secondary characteristic dimension.
<b>NominalLength</b>	Nominal length of product, typically the larger or primary horizontal dimension.
<b>NominalWidth</b>	Nominal width of product, typically the characteristic or secondary horizontal or characteristic dimension.
<b>Process</b>	Specification of process.
<b>ProductionYear</b>	The year of production for the manufactured item.
<b>ReferenceStandard</b>	Reference standard(s) to which the product is compliant.
<b>ReplacementCost</b>	An indicative cost for unit replacement.
<b>SerialNumber</b>	The serial number assigned to an occurrence of a product by the manufacturer.
<b>ServiceLifeDuration</b>	The length or duration of a service life.
<b>ServiceLifeType</b>	The typical service life that is quoted for an artefact under reference operating conditions.
<b>Shape</b>	Characteristic shape of product.
<b>Size</b>	Characteristic size of product.
<b>SustainabilityPerformance</b>	Sustainability issue(s) which the product satisfies.
<b>TagNumber</b>	The tag number assigned to an occurrence of a product.
<b>WarrantyDescription</b>	Description of the warranty.
<b>WarrantyDurationLabour</b>	Duration of labour warranty (years).
<b>WarrantyDurationParts</b>	Duration of parts warranty (years).
<b>WarrantyGuarantorLabour</b>	Organization acting as guarantor of labour warranty.
<b>WarrantyGuarantorParts</b>	Organization acting as guarantor of parts warranty.
<b>WarrantyStartDate</b>	The date on which the warranty commences.

### 3.0 Abbreviations

<b>Brds</b>	Boards
<b>Comp</b>	Composite
<b>Mtrl</b>	Material
<b>nbl</b>	national BIM library
<b>Plstcs</b>	Plastics