



## The National BIM Library

BIM Object Guide: Flowcrete UK Ltd



Version 1.0

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

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## 1.0 Introduction

This guide covers the use of Resin Flooring System included within the National BIM Library.

### Resin Flooring System



All products listed below are included in the following file:

nbl\_ResinFlooringSystem\_FlowcreteUKLtd\_FlowfastTerrosso  
nbl\_ResinFlooringSystem\_FlowcreteUKLtd\_MondécoCrystallce  
nbl\_ResinFlooringSystem\_FlowcreteUKLtd\_PeranComfort  
nbl\_ResinFlooringSystem\_FlowcreteUKLtd\_PeranSTB

Resin Flooring System

## 1.1 Naming

National BIM Library objects are named to identify their type and configuration. Fields are segregated using an underscore (\_) 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 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

<b>LevellingScreed</b>	Application of a levelling screed required due to contaminated existing surface which cannot be removed by cleaning or mechanical means.
<b>MovementJointAttachment</b>	Attachment method for the movement joint.
<b>MovementJointType</b>	Type of movement joint for the flooring system.
<b>Primer</b>	Indication if a primer is required.
<b>Reinforcement</b>	Required reinforcement to minimise potential problems.
<b>ResinFlooring</b>	Classification of resin flooring type in accordance with BS EN 8204-6.
<b>ResinSkirtingsUpstands</b>	Skirting and upstand detail.
<b>SubstratePreperation</b>	Preparation required to ensure adhesion of the resin flooring.
<b>SubstrateTesting</b>	Required testing before flooring application.
<b>SurfaceTreatment</b>	Additional surface treatment required.
<b>SystemAccessories</b>	Available accessories for the flooring system.

## 2.3 Manufacturers Parameters

<b>AbrasionResistance</b>	How the product performs to BS EN 8204-2 in relation to abrasion resistance.
<b>BondStrength</b>	How the product performs to BS EN 13892-8 in relation to bond strength.
<b>ColourOptions</b>	List of colour options available for the product.
<b>CompressiveStrength</b>	How the product performs to BS EN 6319 in relation to compressive strength.
<b>ElongationAtbreak</b>	How the product performs to DIN 53504 in relation to elongation at break.

<b>FlexuralStrength</b>	How the product performs to BS EN 6319 in relation to flexural strength.
<b>Grout</b>	Name of the type of group used.
<b>ImpactResistance</b>	How the product performs to BS EN ISO 6272 in relation to impact resistance.
<b>PolishCoat</b>	Name of polish coat used.
<b>Scatter</b>	Name of scatter used.
<b>SealerCoat</b>	Name of sealer coat used.
<b>ShoreAHardness</b>	How the product performs to DIN 53505 in relation to shore a hardness.
<b>SlipResistance</b>	How the product performs to BS EN 7976-2 in relation to slip resistance.
<b>CureSpeed</b>	20°C, 50% RH.
<b>SuitableEnvironment</b>	Uses which the product is appropriate for.
<b>TemperatureResistance</b>	The highest temperature the product is able to resist. In [°C].
<b>TensileStrength</b>	How the product performs to BS EN 6319 in relation to tensile strength.
<b>VapourPermeability</b>	How the product performs to ASTM E96:90 in relation to vapour permeability.
<b>WearResistance</b>	How the product performs to BS EN 13892-4 in relation to wear resistance.
<b>WaterPermeability</b>	Products water permeability measured in [mm/min].

## 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 giving according to the national building code. It indicates the sound transmission resistance of this object by an index ration (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. Here 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.
<b>HasAntiStaticSurface</b>	Indication whether the surface finish is designed to prevent electrostatic charge (TRUE) or not (FALSE).
<b>HasNonSkidSurface</b>	Indication whether the surface finish is designed to prevent slippery (TRUE) or not (FALSE).

## 2.5 COBie Parameters

The following COBie parameters have been included within the Resin Flooring System 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>Flr</b>	Flooring
<b>nbl</b>	national BIM library
<b>Rsn</b>	Resin
<b>Sym</b>	System