



## The National BIM Library

BIM Object Guide: Concrete Granolithic Wearing Screed Mix



Version 1.0

23<sup>rd</sup> April 2014

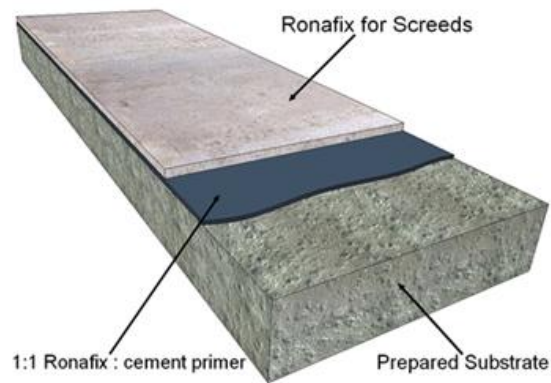
[www.nationalBIMlibrary.com](http://www.nationalBIMlibrary.com)

## Contents

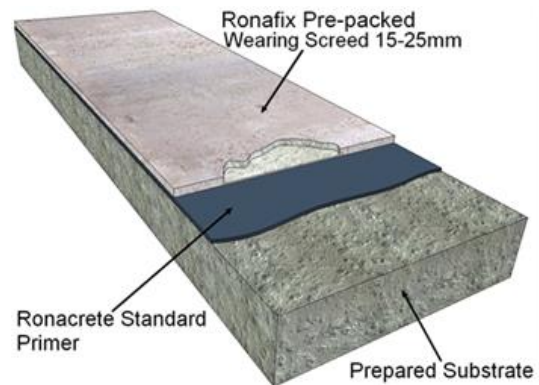
1.0 Introduction .....	3
1.1 Naming.....	4
2.0 Parameters .....	5
2.1 National BIM Library Parameters.....	5
2.2 NBS Parameters.....	6
2.3 Manufacturers Parameters .....	6
2.4 IFC Parameters .....	7
2.5 COBie Parameters .....	9
3.0 Abbreviations .....	11

## 1.0 Introduction

This guide covers the use of Concrete Granolithic Wearing Screed Mix included within the National BIM Library:



**Ronafix for Screeds Mix B**



**Ronafix Pre-packed Screeds Mix B**

## 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>Admixture</b>	Details of screed admixture.
<b>Cement</b>	Details of cement type.
<b>CementAdditions</b>	Details of cement additions.
<b>Certification</b>	Details of third party product/ system certification, for example a BBA Certificate or BSI Kitemark.
<b>CoarseAggregate</b>	Details of screed course aggregate.
<b>FineAggregate</b>	Details of screed fine aggregate.
<b>Mix</b>	Details of screed mix by weight.

## 2.3 Manufacturers Parameters

<b>Adhesion</b>	Adhesion by pull off test, measured in [N/mm <sup>2</sup> ].
<b>CompressiveStrength</b>	Compressive strength of screed after 28 days, measured in [N/mm <sup>2</sup> ].
<b>ElongationAtBreak</b>	Elongation at break measured in [%].
<b>FlexuralStrength</b>	Flexural strength of screed after 28 days, measured in [N/mm <sup>2</sup> ].
<b>MaximumApplicationDepth</b>	Maximum application depth of screed.
<b>MinimumApplicationDepth</b>	Minimum application depth of screed.
<b>Primer</b>	Details of screed primer.
<b>TemperatureRange</b>	Application temperature range.
<b>TensileStrength</b>	Tensile strength of screed after 28 days, measured in [N/mm <sup>2</sup> ].

## 2.4 IFC Parameters

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

<b>Reference</b>	Reference ID for this specified type in this project (e.g. type A-1 ).
<b>FireRating</b>	Fire rating for this object. It is given according to the national fire safety classification.
<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>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>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>Combustible</b>	Indication whether the object is made from combustible material (TRUE) or not (FALSE).
<b>IsExternal</b>	Indication whether the element is designed for use in the exterior (TRUE) or not (FALSE). If (TRUE) it is an external element and faces the outside of the building.
<b>ThermalTransmittance</b>	Thermal transmittance coefficient (U-Value) of an element. Here the total thermal transmittance coefficient through the covering (including all materials).
<b>Finish</b>	Finish selection for this object. Here specification of the surface finish for informational purposes.
<b>HasNonSkidSurface</b>	Indication whether the surface finish is designed to prevent slippery (TRUE) or not (FALSE).

**HasAntiStaticSurface**

Indication whether the surface finish is designed to prevent electrostatic charge (TRUE) or not (FALSE).



## 2.5 COBie Parameters

The following COBie parameters have been included within the Concrete Granolithic Wearing Screed Mix 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>Cncrt</b>	Concrete
<b>Grnlthc</b>	Granolithic
<b>Mx</b>	Mix
<b>nbl</b>	national BIM library
<b>Scrd</b>	Screed
<b>Wrng</b>	Wearing