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The National BIM Library

BIM Object Guide: Cementitious Levelling Screed Mix

Ronacrete

Version 1.0
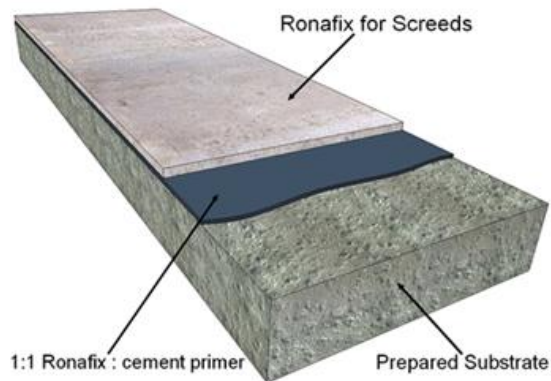
23rd April 2014

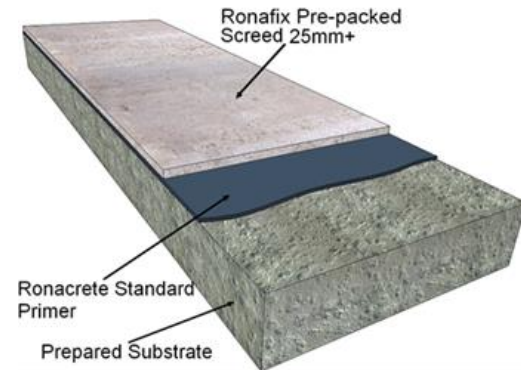www.nationalBIMlibrary.com

Contents

1.0 Introduction

This guide covers the use of Cementitious Levelling Screed Mix included within the National BIM Library:
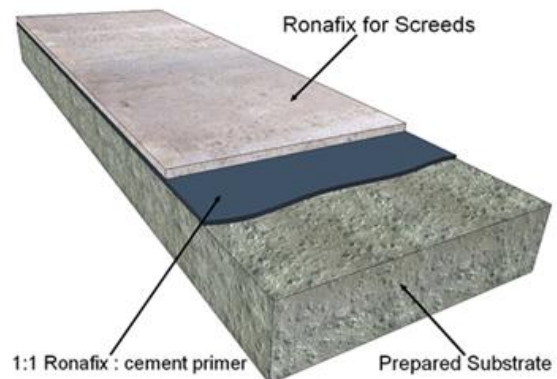

Ronafix for Screeds Mix A
Ronafix for Screeds Mix A1
Ronafix for Screeds Mix F
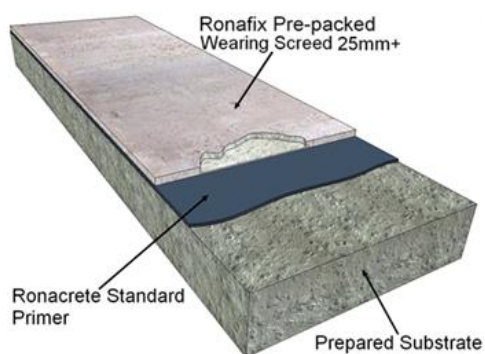

Ronafix Pre-packed Screed 6-50 mm
Ronafix Pre-packed Screed 25 mm+
Ronafix Pre-packed Floating Screed 35 mm+
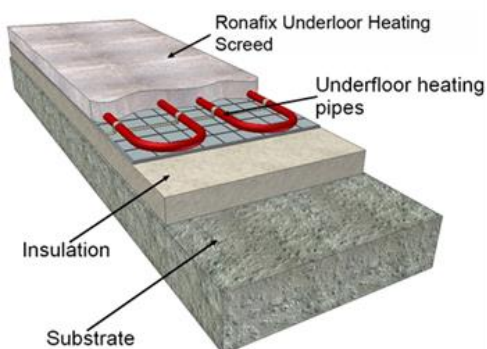
Ronafix Underfloor Heating Screed

Ronafix for Screeds Mix B1

Ronafix Pre-packed Screeds Mix B1

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

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

2.2 NBS Parameters

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

2.3 Manufacturers Parameters

Adhesion	Adhesion by pull off test, measured in [N/mm²].
CompressiveStrength	Compressive strength of screed after 28 days, measured in [N/mm²].
ElongationAtBreak	Elongation at break measured in [%].
FlexuralStrength	Flexural strength of screed after 28 days, measured in [N/mm²].
MaximumApplicationDepth	Maximum application depth of screed.
MinimumApplicationDepth	Minimum application depth of screed.
Primer	Details of screed primer.
TemperatureRange	Application temperature range.
TensileStrength	Tensile strength of screed after 28 days, measured in [N/mm²].

2.4 IFC Parameters

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

AcousticRating	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).
Combustible	Indication whether the object is made from combustible material (TRUE) or not (FALSE).
Finish	Finish selection for this object. Here specification of the surface finish for informational purposes.
FireRating	Fire rating for this object. It is given according to the national fire safety classification.
FlammabilityRating	Flammability Rating for this object. It is given according to the national building code that governs the rating of flammability for materials.
FragilityRating	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.
HasAntiStaticSurface	Indication whether the surface finish is designed to prevent electrostatic charge (TRUE) or not (FALSE).
HasNonSkidSurface	Indication whether the surface finish is designed to prevent slippery (TRUE) or not (FALSE).
IsExternal	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.
Reference	Reference ID for this specified type in this project (e.g. type A-1).
SurfaceSpreadOfFlame	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.

ThermalTransmittance   Thermal transmittance coefficient (U-Value) of an element. Here the total thermal transmittance coefficient through the covering (including all materials).

2.5 COBie Parameters

The following COBie parameters have been included within the Cementitious Levelling
Screed Mix BIM object and can be used to prepare COBie data schedules:

AccessibilityPerformance — Accessibility issue(s) which the product satisfies.

AssetIdentifier — The asset identifier assigned to an occurrence of a product (prior to handover).

BarCode — The identity of the bar code (or rfid) given to an occurrence of the product.

CodePerformance — Code Compliance requirement(s) which the product satisfies.

Colour — Characteristic or primary colour of product.

Constituents — Optional constituent features, parts or finishes.

Cost — Cost impact of replacement process.

Documentation — Location (Uniform Resource Information) for further product information.

DocumentReference — Location (Uniform Resource Information) for the source or updates to this product information.

Features — Features or other important characteristics relevant to product specification.

Finish — Characteristic or primary finish of product.

Grade — Standard grading(s) to which the product corresponds.

InstallationDate — The date that the manufactured item was installed.

LifeCyclePhase — Life Cycle Phase as defined in ISO 15978.

Manufacturer — The organization that manufactured or assembled the item.

Material — Main material of the covering.

MethodOfMeasurement — Method of measurement.

ModelLabel — The model number assigned by manufacturer.

ModelReference   The name used by the manufacturer.

NominalHeight   Nominal height of product, typically the vertical or secondary characteristic dimension.

NominalLength   Nominal length of product, typically the larger or primary horizontal dimension.

NominalWidth   Nominal width of product, typically the characteristic or secondary horizontal or characteristic dimension.

Process   Specification of process.

ProductionYear   The year of production for the manufactured item.

ReferenceStandard   Reference standard(s) to which the product is compliant.

ReplacementCost   An indicative cost for unit replacement.

SerialNumber   The serial number assigned to an occurrence of a product by the manufacturer.

ServiceLifeDuration   The length or duration of a service life.

ServiceLifeType   The typical service life that is quoted for an artefact under reference operating conditions.

Shape   Characteristic shape of product.

Size   Characteristic size of product.

SustainabilityPerformance Sustainability issue(s) which the product satisfies.

TagNumber   The tag number assigned to an occurrence of a product.

WarrantyDescription   Description of the warranty.

WarrantyDurationLabour Duration of labour warranty (years).

WarrantyDurationParts   Duration of parts warranty (years).

WarrantyGuarantorLabour Organization acting as guarantor of labour warranty.

WarrantyGuarantorParts Organization acting as guarantor of parts warranty.

WarrantyStartDate   The date on which the warranty commences.

3.0 Abbreviations

nbl   national BIM library