



The National BIM Library

BIM Object Guide: Self Smoothing Wearing Screed Mix



Version 1.0

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www.nationalBIMlibrary.com

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1.0 Introduction

This guide covers the use of Smet Self Smoothing Wearing Screed Mix included within the National BIM Library.

Self Smoothing Wearing Screed Mix

smet



Floor Screeds & Compounds

bringing european innovation

smet

All products listed below are included in the following file:

nbl_SlfSmthgWrngScrdMix_Smet

Cemart Cemstyle 440

Cemart Cemstyle 450

Cemart Cemtop 340

Cemart Cemtop 360

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*

Object

Field1 *Author_***Field2** *Category* **Field3** *Manufacturer_***Field4** *Product_***Field5** *Differentiator*

2.0 Parameters

Parameters included in the **Smet Self Smoothing Wearing Screed Mix BIM objects** 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 BIMObject 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

Binder	Requirement for a binder.
Mix	Proprietary formulation.
Reinforcement	Polypropylene fibres or glass fibre mesh reinforcement.

2.3 Manufacturers Parameters

AbrasionResistance	Resistance to abrasion class.
CompressiveStrength	Compressive strength class.
EN13813	Screed specification to EN 13813.
FinalCoveringHardeningTime	Final covering hardening time.
FlexuralStrength	Flexural strength class.
FlowRate	Flow rate measured in [mm].
FootTrafficHardeningTime	Hardening time before foot traffic.
MaximumThickness	Maximum screed thickness measured in [mm].
MinimumThickness	Minimum screed thickness measured in [mm].
PotLife	The time taken for the screed to begin curing.
Shrinkage	Shrinkage measured in [‰].
SuitableSubstrates	Substrates to which the screed is suitable for use.
TensileAdhesion	Tensile adhesion measured in [N/mm ²].
UnitSize	Weight per unit measured in [kg].
UnitsPerPallet	Number of units delivered per pallet.
WaterDemand	Volume of water required measured in [L] or as a [%].
Yield	Product yield measured in [kg/mm/m ²].

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).
Compartmentation	Indication whether the object is designed to serve as a fire compartmentation (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.
LoardBearing	Indicates whether the object is intended to carry loads (TRUE) or not (FALSE).
Material	Main material of the covering, it should only be given, if no IfcMaterial class is assigned to the IfcCovering instance.

Permeability	Ratio of permeability.
PitchAngle	Angle of the slab to the horizontal when used as a component for the roof (specified as 0 degrees or not asserted for cases where the slab is not used as a roof component). The shape 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. For geometry editing applications, like CAD: this value should be write-only.
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).
TotalThickness	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 Smet Self Smoothing Wearing Screed Mix BIM objects 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.
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.
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

Mix	Mix
nbl	National BIM Library
Scrd	Screed
Slf	Self
Smthg	Smoothing
Wrng	Wearing