PRODUCT DATA SHEET

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CE

UNIBAR SL

COMPLIANT WITH THE EUROPEAN STANDARD
UNI EN 13813
SR C30-F5-B2.0
Materials for screeds

DESCRIPTION OF THE PRODUCT

Three-component, solvent-free self-levelling screed designed for deteriorated or uneven surfaces. It is composed of epoxy binders, hardeners, and special fillers with a graded granulometric curve (SC2).
Developed by WINKLER Research & Development Laboratories.

FIELDS OF USE

Designed for the restoration of load-distribution layers with deteriorated or uneven surfaces (maximum thickness 3 mm), producing a smooth, perfectly flat surface with high chemical and mechanical resistance.
Suitable for civil flooring applications, including garages, pedestrian walkways, schools, offices, and showrooms. It is also suitable for industrial flooring subjected to moderate traffic and load stresses, such as forklift lanes, warehouses, and storage areas.

SURFACE PREPARATION

Thoroughly clean the substrate to remove dust, oils, greases, and other contaminants. Do not use chemical, acidic, or basic detergents for cleaning.
Before applying **UNIBAR SL**, treat the surfaces with **UNIBAR FORMULA** (consumption: 150-300 g/m^2 for a single coat) as a coupling primer. **UNIBAR SL** can be applied wet-on-wet over the primer.
For flaky or inconsistent substrates, after consulting the relevant technical data sheet, first treat the surface with **UNIBAR FORMULA** diluted with ethyl alcohol. Then apply two coats of **UNIBAR FORMULA** as a vapour barrier to prevent moisture rising from the sub-layer over time.

WARNING

Do not use the product if the packaging is damaged.
Do not dilute with solvents.

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PRECAUTIONS

UNIBAR SL, like all three-component systems, requires the correct order of addition of the supplied pre-dosed components and thorough mixing before application.
Once the components have been mixed, **UNIBAR SL** must be applied within the specified working times.
Apply the product at temperatures between +10°C and +30°C with relative humidity below 70%. The substrate surface temperature must be at least +3°C above the dew point. Substrate temperatures below +10°C significantly slow down the hardening; do not apply the product under these conditions.
Avoid exposing components A and B to direct sunlight or storing them in areas subject to overheating (e.g. vans, trucks), as this significantly reduces workability. Do not use the product beyond its pot life.

APPLICATION

Pour Component B into Component A and mix manually or with a low-speed drill until a homogenous fluid is obtained.
Gradually add the special fillers SC2 to the A+B mixture and continue mixing until uniform.
Delimit the areas to be levelled using shims (2-3 mm) to prevent the product from spreading beyond the intended zones.
Pour **UNIBAR SL** onto the prepared substrate and promote self-levelling with a toothed spatula (triangular teeth).
Once evenly distributed, smooth and equalise the thickness using a bubble breaker roller, wearing studded shoes to avoid marking the surface.

PAINTING APPLICATION

After drying (12-24 hours), the product must be overcoated with two coats of **UNIBAR G** (for surfaces not exposed to UV rays) or with two coats of **WINPAINT** (for internal or external surfaces), after consulting the relevant technical data sheets.

CONSUMPTION

1.5 kg/m^2 per mm of thickness

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TOOL CLEANING
Clean the tools with alcohol before the product hardens.

PACKAGING
Component A: 5 kg bucket
Component B: 2.5 kg bucket
Special Fillers SC2: 11.73 kg bag

STORAGE
The product in its original and undamaged packaging, can be stored for up to 12 months. Store at temperatures between +5°C and 35 °C. The product is not frost-resistant.

SAFETY INSTRUCTIONS

PRECAUTIONS
For safety information, the user must refer to the latest Safety Data Sheet (SDS), prepared in accordance with applicable regulations. The SDS contains detailed information on the physical, toxicological, and safety characteristics of the product.

DISPOSAL AND ENVIRONMENTAL PRECAUTIONS
Do not release the product or empty containers into the environment. For detailed disposal instructions, refer to the most recent Safety Data Sheet (SDS).

TECHNICAL FEATURES
(average value)

FEATURES	COMPONENT A	COMPONENT B	SPECIAL FILLERS SC2
Appearance	Liquid	Liquid	Powder
Colour	Clear	Straw yellow - Clear	Grey
Density	1.14 kg/l	0.97 kg/l	n.a.
Viscosity	800 mPa.s	100 mPa.s	n.a.
Solid content	100%	100%	100%

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UNIBAR SL APPLICATION DATA

Premixed Components Mixing Ratio (A+B + SC2)	5 kg + 2.5 kg+11.73 kg
Consistency after mixing	Self-levelling mixture
Specific weight	2.0 g/cm^3
Colour	Grey - Beige
Density	1.5 g/cm^3
Application temperature range	+10°C to +30°C
Pot life	90 min (+10°C) 60 min (+20°C) 30 min (+30°C)
Hardening time	12 h (+30°C) to 24 h (+20°C)
Full hardness	After 7 days

PERFORMANCE DATA OF HARDENED PRODUCT ACCORDING TO UNI EN 13813

FEATURES	STANDARD	RESULTS
Compressive strength after 24 h	UNI EN 13892-2	≥ 5 N/mm^2
Compressive strength after 28 days	UNI EN 13892-2	≥ 30 N/mm^2
Flexural strength after 28 days	UNI EN 13892-2	≥ 5 N/mm^2
Adhesion strength	UNI EN 13892-8	≥ 2 N/mm^2

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