

SL C600 EVOLUTION

LOWER CO₂, SELF-LEVELLING COMPOUND

12/03/2024

BENEFITS

- Lower CO₂ for reduced impact – 60% compared to generic EPD*
- Easy to apply – excellent flow and self-levelling properties
- Suitable for slope building
- Application thickness 2-30 mm
- EPD verified
- Low emission levels**
- Suitable for electric and water-borne underfloor heating



AREA OF APPLICATION

BOSTIK SL C600 EVOLUTION is a CO₂-reduced, self-levelling compound with optimized flow and finish intended as a substrate for carpets, linoleum, PVC, parquet flooring and tiles in residential, commercial, offices, hospitals, schools, etc. **SL C600 EVOLUTION** can also be used for floating structures in dry rooms. **SL C600 EVOLUTION** provides a perfectly smooth surface without the need for subsequent treatment. The compound's high surface strength of 1,5 MPa contributes to a suitable substrate for solid wood floors, provided that the compound is applied to a concrete substrate. The product is environmentally adapted and stable in terms of moisture damage.

APPROVED SUBSTRATES (PROPERLY PREPARED):

- Concrete and lightweight concrete
- Plasterboard
- Clinker/stone
- Wood and chipboard
- Suitable for electric and water-borne underfloor heating

*A1-A3, based on specific EPD N° XXXX in comparison with generic N° EPD-DBC-20220218-IBF1-EN

** TVOC levels after 28 days ≤ 60 µg/m³

***The drying times stated presuppose +20°C and max. 50% RH and a certain exchange of air as well as RH in the substrate of less than 85%.

TECHNICAL DATA

Mixing ratio	4 litres of water / 20 kg bag
Material consumption	1.8 kg/mm/m ²
Application time***	Up to 20 min
Can be walked on after***	2-3 hours
Can be coated after***	Tiles 3 hours, Bostik wet room system and floor covering 2-4 days
Compressive strength	C25 in accordance with EN 13813
Bending tensile strength	F6 in accordance with EN 13813
Surface tensile strength	>1,5 Mpa
Shrinkage	<0.3 mm/m in accordance with EN 13454-2
Expansion	<0.05 mm/m
Flowability	140 - 150 mm in accordance with SS 923519 (50x22 mm)
Fire class	A2fl-s1 in accordance with EN 13501-1
Resistance to rolling wheels	RWFC 250N in accordance with GRB industry standard
pH dried material	<11

SUBSTRATE PREPARATION

For best work results, the temperature in the room should be between +10°C and +25°C.

Cleaning: Subfloors must be clean, sound, dry (<75%RH), and free from contaminants that may impair adhesion e.g. dust, grease, paint, plaster, polish, water softenable adhesive etc.; and that it is solid and hard without cracks on the surface or the like. The surface strength of the substrate should be >1.0 MPa. Any sludge layer should be ground or milled away. If unsure, contact BOSTIK for further advice.

Moisture: Residual or Rising Damp moisture content must comply with existing local regulation. Below <2% CM is the most restrictive case in Europe for cement screeds. In case of high moisture level, surfaces must be treated with adequate BOSTIK damp proofing membrane as **HYTEC E736 TURBO** for rising damp or **HYTEC A370 RAPID** for residual moisture.

Priming: For improved adhesion and to prevent quick drying-out, the substrate **MUST** be pre-treated with **BOSTIK GRIP A560 CLASSIC** or any approved **GRIP PRIMER**. For normally absorbent substrate, the primer should be applied diluted with water in the ratio 1:3. **For highly absorbent** substrates the primer should be applied in 2 coats diluted 3:1 with water. **For non-absorbent** substrates such as clinker, stone, PVC, linoleum, wood, etc use **BOSTIK GRIP A936 XPRESS**. The primer should be brushed into the substrate. Allow the primer to fully dry prior on conducting the self-levelling application. Apply the floor SL Compound within 24 h.

Cracks: Surface shrinkage as well as joints should be treated with **BOSTIK RENO SOLUTIONS**, which should be followed with a broadcasting of **BOSTIK S409 sand**.

Underfloor heating systems:

Underfloor heating systems must be switched off for 48 hours before installation. Wait 7 days after installation before gradually turning up underfloor heating.

TECHNICAL NOTES:

When applying 2 layers, priming should be carried out between the filler layers. For best result, use **BOSTIK** shut-off strip around the perimeters to absorb movement and reduce the risk of cracks.

If necessary, delimit the floor surface with a shut-off strip. For optimum adhesion, install the shut-off strip after priming.

For more information, refer to Bostik's construction descriptions or contact Bostik Technical Service.

SURFACE PREPARATION:

	SURFACE	SPECIFIC PREPARATIONS AND VERIFICATIONS
NEW	Concrete slab	Elimination of the cure product
	BAP Fluid cement screed	
	Calcium sulfate screed	Measurement of residual moisture
	Heated and/or cooled floors + ERP	Check that the heating has been carried out
RENOVATION	Tiles	Cleaning with water and soda lye, followed by rinsing with clear water
	Semi-flexible slab without asbestos	
	Traces of acrylic glue	Remove as much as possible by scraping
	Traces of asbestos-free bituminous glue	Remove excess thicknesses >0.5mm or total removal
	Floor paint	Sanding to restore roughness then cleaning same as tiles
	Floor resin	Sanding then same as floor paint
	Parquet on joists	Elimination of waxes and varnishes followed by dusting by aspiration
	Wood-based panels	Check that there is no arrow
	Asphalt screed	No cracks

APPROVED SUBSTRATES:

TYPES OF SUPPORT		Primers	Consumption
Concrete cement screed	Porous	Grip A310 PROJECT GRIP A560 CLASSIC	100-120 g/m ² /layer
	Normally absorbent	GRIP A310 PROJECT GRIP A500 MULTI GRIP A560 CLASSIC GRIP A700 UNIVERSAL	100-120 g/m ²
	Closed	GRIP A500 MUTLI GRIP A700 UNIVERSAL	80-100 g/m ²
Calcium sulfate screed		GRIP A310 PROJECT GRIP A700 UNIVERSAL	100-120 g/m ² /layer
Tile		GRIP A500 MULTI GRIP A700 UNIVERSAL	100-120 g/m ²
Traces of gluing			
Residue from patching			
Semi-flexible slabs			
Roofing		GRIP A936 XPRESS	80-100 g/m ²
Resin		GRIP A936 XPRESS	80-100 g/m ²
Parquet on joist		GRIP X910 FILL & WOOD	0,8-1 kg/m ²
CTBX-CTBH-0583 panels		GRIP X910 FILL & WOOD	0,6-0,8 kg/m ²
Asphalt screed		GRIP A936 XPRESS	100-120 g/m ²

MIXING

Mix the levelling compound in a suitable bucket or in a larger dish (75-100 litres) with room for 3-4 bags. Add 4.0 litres of clear water into a clean mixing bucket (water ratio: 4Liters to 20 kg of powder). Water temperature must be between +5 to +20°C.

Mix with a whisk-fitted drill or turbine whisk (Collomix DLX mixing paddle recommended to prevent lumps/air pockets) to a lump-free and easy-flowing consistency (mixing time approx. 2 minutes).

After mixing, a maturing time of at least 30 seconds is recommended to optimize the flow. Remix for 30 seconds. The mixture will retain its self-smoothing capability for approximately 20 minutes under normal conditions.

Note: The addition of too much water may result in separation of the compound.

APPLICATION

Application thickness : A depth of 2mm to 30mm is permissible in a single application. For depths above 30mm, the product needs to be used as a blended compound and treated as a mortar.

If a second application of **BOSTIK SL C600 EVOLUTION** is required, this can be carried out once it is ready to take foot traffic. Area must be fully primed and left to dry out prior on the application.

Trowel application : Pour the mixed material onto the prepared substrate to a thickness between 2mm and 30mm.

Using a smooth edge stainless steel trowel, smooth over the wet product to gain the desired thickness and smoothness. A pin level may be used to assist in gaining the required depth. Use a spiked roller to remove any trapped air and flow lines, to give a uniform surface appearance.

Machine application: With machine application, use a suitable mixer pump. Adjust the volume of water to 20%. Check the volume of water with a flow test. At the correct volume of water, the flowability must be according to Technical Data. Also check with the flow test that the smoothing compound is well coherent and free from separation.

For building gradient surfaces/slopes, reduce the volume of water by 0.5-1.0 litre. The temperature of the levelling compound should be between +10 and +20°C.

Levelling: Check the slope and curvature of the subfloor, if these deviate from the prescribed tolerance, the floor should be divided in an appropriate manner. Mark out extreme low and high points in particular.

APPLICATION (CONT'D)

Application: The compound is pumped or poured out onto the substrate and then flows together to form a smooth and flat surface. For optimal result use a spike roller to remove access air. Take into account the compound's working time in order to avoid ridges and unevenness. Application time approx. 15-25 minutes. The surface can normally be walked on after 2-3 hours. **NB!** In case of solar radiation, high temperature, strong ventilation or other factors that can accelerate the drying, the surface must be protected against drying too rapidly. Neither a dehumidifier nor a heating fan should be used.

STORAGE

6 months in a dry, cool and unopened package.

ENVIRONMENT AND HEALTH

The product contains cement and is a skin irritant. All users must understand and use the safety data sheet before using the product. The safety datasheet is available on request and is available on the manufacturer's website

RECYCLING

Waste generation should be avoided or minimised whenever possible. Empty containers may retain some product residues. Product and packaging must be disposed of safely. Hire an authorised waste management company to dispose of surplus products and non-recyclable products. Disposal of this product must always be in accordance with the requirements of environmental protection and legislation for waste management. Avoid spreading spilled material, runoff, contact with soil, waterways and drains.

CLEANING

Clean tools and equipment with warm soapy water immediately after use.

Article number	Packaging	Quantity per pallet	EAN
30624580	20 kg	48	7311020081881

Saving clause: The technical data we report, as well as our instructions and recommendations, are all based on a variety of tests and on our experience. They are intended to help the user achieve the best possible results. As the conditions at the user's premises are beyond our control, we cannot accept any liability for the results achieved when using the product.

BOSTIK SERVICE

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