



GBLC01

SELF-LEVELING, SELF-SMOOTHING POLYMER MODIFIED GYPSUM-BASED TOPPING AND LEVELLING COMPOUND

DESCRIPTION:

GBLC01 is a one part, gypsum-based, polymer modified floor topping and levelling compounds designed to provide smooth and level floors with a minimum of time and labour.

GBLC01 can be used to prepare a wide variety of sub-floors for installation of tile, carpet, resilient flooring, wood flooring and many types of surface coatings.

GBLC01 provides rapid, economical casting, repair and levelling in interior exposures. It readily accepts a variety of finishes.



GBLC01 on membrane over sand/cement screed

Arragon Mooarr, Isle of Man applicator: William Lea Limited

Main Contractor: Styles and Wood

USES:

Levelling uneven substrates

Resurfacing frozen, rained-on or scaled gypsum screeds

Under-floor heating

New surfacing over existing tiles

Old asphaltic and magnesia screeds

Smoothing rough substrates

FEATURES:

Bonding: Polymer modified formula develops high adhesive strength on properly prepared sub-flooring. Very porous substrates will require priming.

Ease of Application: Requires no special skills, tools or additives. **GBLC01** is simply mixed with water using a drill or other mechanical mixer, poured, spread and left to harden. **GBLC01** may be installed in thickness up to 30mm in one lift. It is readily pumpable using any standard grout pump for large installations, without separation, settling in lines or "bleeding".

Compatibility: May be used over concrete (for this application, we recommend sealing the concrete base), calcium sulphate screeds, wood, steel or polystyrene foam. Readily accepts many types of coatings, adhesives and mastics typically used in installing carpeting or other types of flooring. When tiling on gypsum screeds, we recommend gypsum-based **GBTA** tile adhesive

HIGH STRENGTH:

GBLC01 is a gypsum-based composition of strength class CA-C30-F6, matching high quality concrete.

SAFETY:

GBLC01 contains no toxic resins, solvents or diluents. **GBLC01** is an odourless, non-flammable and non-corrosive formulation.

PROPERTIES:

Composition:	Polymer-modified gypsum blend with flow and set-controlling additives, extenders and fillers	
Strength Class:	CA-C30-F6 (BS EN 13813)	
Flow Time:	10 - 20 minutes at 20°C	
Initial Set:	45 - 90 minutes*	
Foot Traffic:	2 - 4 hours*	
Finishing/Covering:	12 - 24 hours*	
Mixing Ratio:	7.5 litres water per 25kg bag	
Coverage:	1.6 kg/m ² at 1mm depth	
	4.8 kg/m ² at 3mm depth	
	25 kg bag covers approximately 5m ² at 3mm depth	
	25 kg bag covers approximately 3m ² at 5mm depth	
Minimum Application Temp:	5°C	
Flexural Strength (typical):	28 days	6N/mm ²

*Actual flow time, set time, and strength development are temperature dependent.

APPLICATION:

1. Surface Preparation:

Remove all grease, oil, dirt, laitance, wax, curing compounds, unsound surfaces or other materials which may interfere with adhesion. Frozen or other substandard surfaces must be cut back to the depth required to reach sound substrate for bonding.

2. Priming:



Non-porous floors may require the use of our adhesion promoting primer. Highly porous floors may require the use of sealer/primer. Steel Decking should be free of rust and scale, and should be primed with a suitable primer.

NOTE: Test areas should always be installed prior to large scale application to assure compatibility and performance under actual use conditions.

3. Installation:

MIXING: To fully develop self-levelling properties without the use of excessive amounts of water, product should be mechanically mixed using slow speed drill with mixing paddle (250 rpm). Avoid whipping excessive air in to mixes. Add **GBLC01** powder to water and mix for 2-4 minutes to achieve a homogeneous, flowable, fine batter consistency. Be consistent from batch to batch once optimum ratio for job conditions has been determined. Mix only as much material as can be applied in 5-10 minutes.



PLACEMENT: Pour or pump **GBLC01** in place and spread with screed, float or squeegee. No trowelling is required, unless "feather-edging" is desired at the perimeter of the pour. Sub-floor high spots should receive a minimum 3mm cover. Do not re-temper material which has begun to set. Discard any material not used within 20 minutes of mixing.

4. Curing:

GBLC01 does not require extended moist cure, and most installations will require no special curing procedures. Avoid too rapid drying when working in hot, dry and/or windy conditions. Do not apply if ambient temperature is above or likely to exceed 25°C during the first 3 hours after application. After this initial period, the product should be allowed to dry cure.

GBLC01 must be kept from freezing for 12 hours after installation. Do not apply at temperatures below 5°C or when temperatures will drop below 5°C within 8 hours of application.

5. Storage and Handling:

Store **GBLC01** in unopened bags in a dry area off the floor. Avoid skin and eye contact and avoid breathing dust. Observe all safety and handling guidelines as detailed in the Material Safety Data Sheet supplied with this product. Keep tools clean and wet during use, and clean up immediately after use. Keep packages closed when not in use.

For further information or assistance, contact Creative Impressions.

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