

BUMA-SLC®

BUMALEVEL

Self-levelling compound for thickness from 1-10mm

In compliance with European standard

EN 13813
CT - B0,5
Levelling
C35 - F7
bumatech

Screed material and floor screeds

Free flow

Good bonding strength

High compressive strength

Can be pump or trowel applied



PRODUCT DESCRIPTION

BuMaLevel is a self-levelling compound; it can be applied on concrete, mortar bed, existing tiles or stone to provide a smooth and flat surface on which materials such as PVC, vinyl, rubber floor, carpet, rise floor, epoxy...will be installed. Thickness from 2-10mm. Classified as **CT-C35-F7-B0,5** according to EN 13813

SUITABLE SUBSTRATE

- Concrete
- Cement mortar beds
- Over underfloor heating systems
- Cement terrazzo
- Ceramic tile and stone

PACKAGING

20 kgs/bag

COVERAGE

1.7 kg/m² for 1mm thickness

SHELF LIFE

Factory sealed containers of this product are guaranteed to be of first quality for six (6) months* if stored off the ground in a dry area

* High humidity will reduce the shelf life of bagged product

LIMITATIONS

- Do not install when surface temperature is below 4°C above 32°C, or when ambient air temperature is expected to fall below 10°C during placement or before material takes final set
- Do not exceed recommended mixing ratio as indicated in mixing instructions. Over watering may weaken product properties
- Never mix with cement or admixtures
- Contains Portland cement and silica sand. May irritate skin in case of prolonged contact with skin
- DO NOT take internally. Avoid breathing dust. Wear a respirator in dusty areas
- Do not use for thickness greater than 10mm per layer. For thickness greater than 10mm (maximum 20mm), it is recommended to add 0.6 – 1.2mm quartz sand (maximum 30% of powder by weight. Do a small test before application at site)

INSTALLATION

Surface Preparation

Installation over concrete slabs

- Concrete surfaces should be structurally sound, clean and free from all dirt, oil, grease, adhesives, paint, sealers or curing compounds
- Concrete surface must be mechanically roughened prior to application. All substrates must have minimum ICRI CSP 2 to 3. Bonding strength of surface must be at least 0.5MPa according to ASTM C1583

- Repair cracks present in the concrete substrate with **BUMA-SP Bond 81** by injection method

Installation over mortar bed

- Mortar bed surfaces should be structurally sound, clean and free from all dirt, oil, grease, adhesives, paint, curing compounds
- Bonding strength of surface must be at least 0.5MPa according to ASTM C1583
- Treat mortar bed with **BuMaPrimer** from 2 to 3 times if surface absorption is high

Installation over Existing Ceramic Tile, Stone or Cement Terrazzo

- All tile and stone must be well adhered to the substrate and free from any bond breaking or bond-inhibiting surface contaminants. Ensure bond strength of the tile or stone to the substrate is a minimum 0.5MPa. If the floor does not pass the 0.5MPa pull strength test you must remove the tile or stone
- Existing tile or stone should be abraded by mechanically method (If priming with **Primer SP**)
- Wash and rinse thoroughly with clean water. Allow to dry.
- Priming the surface with **Primer SP** or skimming with **BuMaFlex** before installing self levelling compound

Mixing

- Place 4.0L – 4.4L of clean potable water into a clean pail. Add one 20kg bag of **BuMaLevel** slowly into the pail; mix while the material is poured. Use a low-speed mixer (300 rpm) and mix thoroughly for two minutes for a smooth creamy mix with no clumps. Do not add too much water than recommendation. Mix no more than two bags at a time
- Let mortar stand for 1 minute then remix
- If mix mortar in a greater quantity, a professional mixer should be used
- The amount of **BuMaLevel** mixed at same time must be used within 10 minutes from finished mixing time (at temperature 32°C, RH ≥ 50%)

Installation

- Pour or pump the **BuMaLevel** over the primed substrate and spread with a trowel or gauging rake. Use a smoothing paddle to combine pours and to obtain a flat smooth surface. Floor will be ready for foot traffic after 6 hours (at 3-5mm thickness)
- If **BuMaLevel** is required to apply in 2 coats, the second coat should be applied as soon as the first coat is ready for foot traffic (~6 hours at temperature 32°C)
- The finished coat of **BuMaLevel** will be ready to receive tile, stone, carpet, PVC, vinyl, rubber floor, rise floor after 24 hours from finished application time (time can vary depend on temperature, RH of site condition and thickness of the product)

Cleaning

- Due to high adhesion strength of this product (even on metals), tools should be washed before mixture becomes harden
- Once mixture setting, cleaning can only be carried out by mechanical method

SAFETY PRECAUTIONS

- In case of contact with the eyes, rinse with running water (10-15min)
- Wear protective gloves, clothing and eyes and face protection.

DISCLAIMER

- Technical details and recommendations contained in this product datasheet correspond to the best of our knowledge and experiences at the time of printing
- These detail offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products for their requests
- Technical details and recommendations can be changed by site condition and workmanship of applicators.
- As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program
- The newest technical data sheet will be supplied upon user request

TECHNICAL SERVICES/ AVAILABILITY

Information is available by calling

BUMATECH CO., LTD

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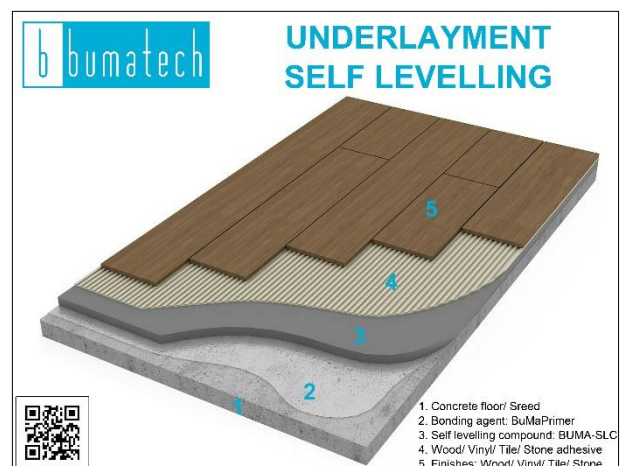
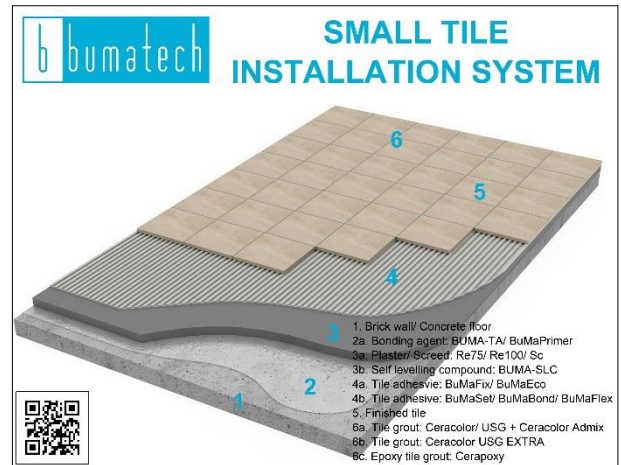
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PRODUCT PERFORMANCE PROPERTIES

Characteristics	Standard	Result
Flexural strength at 28 days	BS EN 13892	$\geq 7.0 \text{ N/mm}^2$
Compressive strength at <ul style="list-style-type: none"> - 24 hours - 3 days - 28 days 		$\geq 15.0 \text{ N/mm}^2$ $\geq 25.0 \text{ N/mm}^2$ $\geq 35.0 \text{ N/mm}^2$
Bond strength		$\geq 0,5 \text{ N/mm}^2$
pH of mix		≥ 10.0
Flow	ASTM C1708	$\geq 125 \text{ mm}$
Flow retention		Approx. 30 mins
Healing time		Approx. 10 mins
Taber abrasion resistant (H22 – 500g – 200revolutions) <ul style="list-style-type: none"> - 7 days - 28 days 	ASTM D4660	$\leq 0.4 \text{ g}$ $\leq 0.2 \text{ g}$
Pot life	n/a	Approx. 20 mins
Walkability (3mm thickness)	n/a	Approx. 6h

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions

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