

BUMA-SLC®

SLO 540.40

Overlayment self levelling compound, thickness 5-40mm



Free flow

Ultra-fast drying

High compressive strength

Can be pump or trowel applied



BUMATECH CO., LTD

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PRODUCT DESCRIPTION

SLO 540.40 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 or finished, wearing exposed surface in construction site. Thickness from 5-40mm. It is classified as **CT-C40-F10-B1,0** 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
- 3-5mm sand or gravel, color aggregate, color glass,... can be added to mixture during mixing time to make a Terrazzo effect floor by dry polishing when product hardened after 3 days
- Never mix with cement or admixtures
- Contains cement and silica sand. May irritate skin in case of prolonged contact with skin
- DO NOT mix water higher than instruction in this technical data sheet
- DO NOT take internally. Avoid breathing dust. Wear a respirator in dusty areas
- Keep out of reach of children

INSTALLATION**Surface Preparation****Concrete substrate preparation**

- 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 substrate 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 contaminates. 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 4.0 – 4.2L of clean potable water into a clean pail. Add one 20kg bag of **SLO 540.40** slowly into the pail; mix while the material is poured. Use a low speed mixer (300 rpm) and mix thoroughly for 2 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 **SLO 540.40** mixed at same time must be used within 20 minutes from finished mixing time (at temperature 32°C, RH ≥ 50%)

Installation

- Pour or pump the **SLO 540.40** 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 3 hours (at 5-10mm thickness)
- The finished coat of **SLO 540.40** will be ready to received tile, stone, carpet, PVC, vinyl, rubber floor, rise floor after 6 – 24 hours from finished application time (time can vary depend on temperature, RH of site condition and thickness of the product)
- For Terrazo floor effect or polished original exposed product (no add any aggregate to mixture), dry polishing should be applied

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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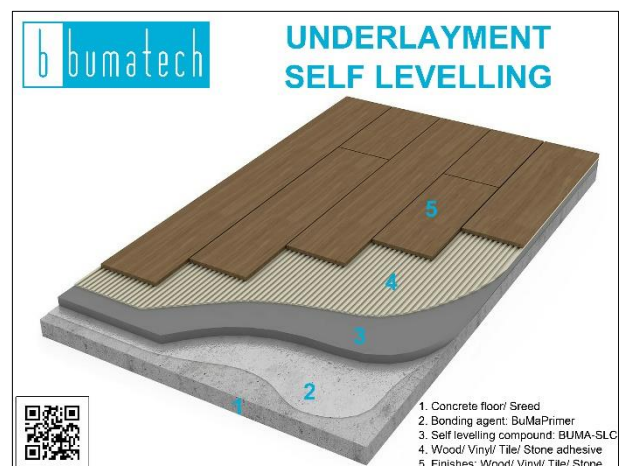
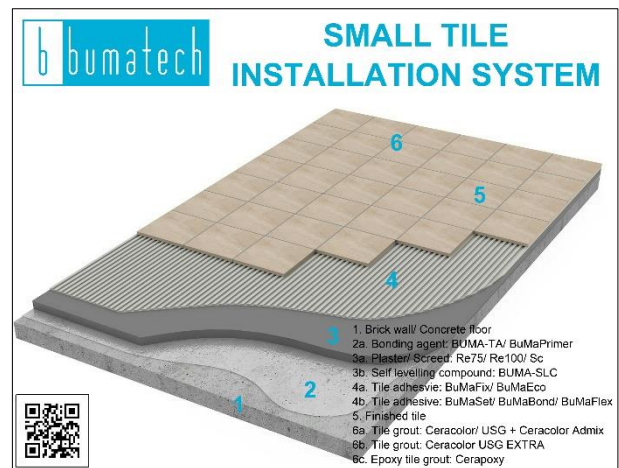
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PRODUCT PERFORMANCE PROPERTIES

Characteristics	Standard	Result
Flexural strength at 28 days	BS EN 13892	$\geq 10.0 \text{ N/mm}^2$
Compressive strength at <ul style="list-style-type: none"> - 6 hours* - 24 hours - 3 days - 28 days 		$\geq 5.0 \text{ N/mm}^2$ $\geq 25.0 \text{ N/mm}^2$ $\geq 35.0 \text{ N/mm}^2$ $\geq 40.0 \text{ N/mm}^2$
Bond strength		$\geq 1.2 \text{ N/mm}^2$
pH of mix		≥ 10.0
Flow		$\geq 125 \text{ mm}$
Flow retention	ASTM C1708	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	$\leq 0.6 \text{ g}$ $\leq 0.4 \text{ g}$
Pot life		n/a
Walkability (5-10mm thickness)	n/a	Approx. 3h

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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