

SLO 540.40

OVERLAYMENT SELF-LEVELLING COMPOUND
THICKNESS 5 - 40mm · WEARING SURFACE

PRODUCT DESCRIPTION

SLO 540.40 is a self-levelling compound applied on concrete, mortar bed, existing tiles or stone to provide a smooth and flat surface for finishing materials, or used as an abrasion-resistant finished wearing surface in construction projects. Thickness from 5 - 40mm. Classified as CT-C40-F10-B1,0 according to EN 13813:2002.

QUICK SPECIFICATIONS

PACKAGING	20kg/bag
COLOUR	Grey
WATER MIXING RATIO	4.0L per 20kg bag
COVERAGE	~1.70kg/m² per 1mm thickness
RECOMMENDED THICKNESS	5 - 40mm per layer
POT LIFE	10 minutes at 32°C
SUBSTRATE TEMPERATURE	4 - 32°C
SET TO FOOT TRAFFIC	Light traffic after ~3 hours
READY TO USE	After 6 - 24 hours
SHELF LIFE	06 months (unopened bag)
STORAGE CONDITIONS	Cool, dry and well-ventilated area



ILLUSTRATION Pouring SLO 540.40 as an abrasion-resistant wearing layer



ILLUSTRATION Exposed finished floor, no further covering required

APPLICATIONS

- **As a finished wearing surface** — abrasion resistant, with no further covering required
- **As an underlayment** before installing finishing materials: tile, stone, carpet, PVC, vinyl, rubber flooring, raised access flooring, epoxy…
- **Suitable substrates:** concrete; mortar beds; over underfloor heating; cement terrazzo; existing ceramic tile and natural stone
- **Application areas:** for interior use only
- **Terrazzo effect:** 3 - 5mm sand, stone chips, coloured aggregate or coloured glass may be added to the mix, then dry-ground and polished after 3 days

SUBSTRATE & PRIMER REQUIREMENTS

- **Concrete:** sound, clean, free of dust, oil, grease, laitance, contaminants, curing compounds and form-release oil; mechanically roughened to ICRI 310.2R-2013 CSP 2 - 3; pull-off strength ≥ 0.5MPa (ASTM C1583/C1583M-25)
- **Mortar bed:** sound and clean, pull-off strength ≥ 0.5MPa (ASTM C1583/C1583M-25)
- **Cracks:** repair by injection with BUMA-SP Bond 81 before application
- **Highly absorbent substrates:** prime 2 - 3 times with BuMaPRIMER by brush, spray or roller
- **Existing tile or stone:** must be firmly bonded (pull-off ≥ 0.5MPa), otherwise remove completely; abrade, wash with clean water, let dry, then apply a BuMaFLEX bonding coat

MIXING

- Pour **4.0 litres** of clean water into a clean pail, then slowly add one 20kg bag of SLO 540.40 while mixing
- Mix with a low-speed mixer (**~300rpm**) for about 2 minutes to a smooth, lump-free consistency
- Let stand for **1 minute**, then remix; mix at most two bags at a time — use a professional mixer for larger quantities
- Use the mixed batch within **10 minutes** (at 32°C, RH ≥ 50%)

TECHNICAL DATA

Property	Standard	Result
Flexural strength after 28 days	BS EN 13892-2:2002	≥ 10.0MPa (F10)
Compressive strength after 6 hours		≥ 5.0MPa
Compressive strength after 24 hours		≥ 25.0MPa
Compressive strength after 3 days		≥ 35.0MPa
Compressive strength after 28 days		≥ 40.0MPa (C40)
Bond strength	BS EN 13892-8:2002	≥ 1.2MPa (B1,0)
pH of the mixed compound	–	≥ 10.0
Flow		≥ 125mm
Flow retention time	ASTM C1708-19	~30 minutes
Healing time		~10 minutes
Taber abrasion resistance after 7 days	ASTM D4060-14	≤ 0.6g
Taber abrasion resistance after 28 days		≤ 0.4g
Pot life	–	~10 minutes
Set to foot traffic (5 - 10mm thickness)		~3 hours

The above results and recommendations are based on laboratory testing; actual performance may vary depending on the application method and specific site conditions.

SAFETY INFORMATION

- **Skin and eye contact:** contains cement, which is alkaline and may cause irritation, mild burns or allergic reactions upon contact with sweat or body fluids; dry or wet cement can cause serious eye injury upon direct contact
- **First aid – eye contact:** immediately rinse with clean running water for 10 - 15 minutes; do not rub eyes; seek medical attention if irritation persists
- **Personal protective equipment:** Gloves · Safety goggles (during mixing) · Dust mask (during dry mixing) · Protective clothing
- **Working environment:** work in well-ventilated areas; avoid confined spaces and keep away from children and pets; avoid inhaling cement dust during mixing
- **Storage and waste handling:** seal bags tightly after use to prevent moisture absorption; do not pour leftover materials into drains — let them dry and dispose as construction waste
- **Further safety reference:** consult the latest Safety Data Sheet (SDS) on the official BUMATECH website or contact our Technical Department for assistance

PRECAUTIONS & DISCLAIMER

- Always trial a small area first to check flow, bond and compatibility of the compound, primer and substrate on site
- Do not install at surface temperatures below 4°C or above 32°C, or if air temperature may fall below 10°C before final set
- 3 - 5mm sand, stone chips, coloured aggregate or coloured glass may be added to create a terrazzo effect floor, dry-ground and polished after 3 days — apart from these materials, never mix with cement or any other admixture
- Do not add more water than specified in this technical data sheet
- Contains Portland cement and silica sand; prolonged contact may irritate skin. Avoid breathing dust, wear a respirator in dusty areas; keep away from children
- The technical data in this document are based on laboratory tests under standard conditions; actual results on site may vary with temperature, humidity, accompanying materials, application method and workmanship. Users are responsible for testing and verifying the product's suitability for their intended use
- BUMATECH is not responsible for any loss caused by misuse, application not following these instructions, or use with incompatible materials or systems without prior written technical approval. BUMATECH may update product technical information without prior notice — always check the latest TDS version on the website before each project

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