BETON CIRE MICROTOPPING

READY-TO-USE DECORATIVE MINERAL COATING

2 – 3 mm	A · 2 × 1 kg – B · 0.5 kg	U3 P3 E3 C2	5-10 m²
THICKNESS	CONSUMPTION / M²	UPEC CLASSIFICATION	PACKAGING

FIELD OF APPLICATION

All interior surfaces: floors, stairs, walls, showers, worktops. Suitable for standard residential use and for high-traffic commercial environments (public buildings, kiosks, retail).

Description: Fast-drying, ready-to-use levelling coating. Non-hydraulic mineral-based binder, cement-free (elastic paste). Application in 3 passes (A+A+B) followed by 2 to 3 protective varnish coats for sealing and mechanical protection. Final thickness 2–3 mm. Wide range of colours.

TECHNICAL DATA — BASE MATERIAL

Appearance	Smooth paste
Colour (unpigmented)	Sand white
Packaging	5 kg · 10 kg · 25 kg
Coverage pass A	2×1 kg/m²
Coverage pass B	500 g/m²
Final thickness	2 to 3 mm
Mix density	1.9 kg/l
Min. application temp.	+10 °C
Max. substrate moisture	≤ 5 %
Drying between coats (@ 20 °C)	1.5 to 5 hours
Storage	8 months min., frost-free
Tensile strength	≥ 1.5 N/mm²

COMPATIBLE SUBSTRATES

- Microtopping, cement or anhydrite screeds (porosity, moisture ≤ 5 %)
- Porcelain / stoneware tiles (prepared surface)
- Plaster, plasterboard, smooth coatings
- Acrylic / epoxy paints resistant to washing
- MDF and wood (specific primer required)

SUBSTRATE PREPARATION

- Substrate dry, sound, free from dust, grease and silicone
- Sand (microtopping / tile / anhydrite with grit 60)
- Apply Primer P1 bonding primer
- Underfloor / radiant heating: turn on heating 24–48 h before application

APPLICATION — MICROTOPPING

01 Apply primer P1. Allow to dry 12–24 h.

02 Pass A: apply 2×1 kg/m² with a stainless steel trowel. Allow to dry 1.5–5 h.

03 Sand lightly (grit 60/80) after complete drying.

04 Pass B: apply 500 g/m² with cross passes.

05 Apply 2–3 protective varnish coats (see page 2).

APPLICATION — VARNISH

- Apply after complete drying of the microtopping (min. 24 h at 20 °C)
- 1st coat: matte varnish, mohair roller
- 2nd coat (residential) or 3rd coat (commercial): matte varnish
- Recoat interval: 4–6 h at 20 °C, 50 % RH

TECHNICAL DATA — MATTE PROTECTIVE VARNISH (DRY FILM)

PARAMETER	VALUE / STANDARD	RESIDENTIAL USE	HEAVY-TRAFFIC COMMERCIAL USE
Recommended dry film thickness	—	80–100 µm (2 coats)	100–140 µm (3 coats)
Konig pendulum hardness (ISO 1522)	NF EN ISO 1522	≥ 80 s	≥ 110 s
Taber abrasion resistance (CS-17, 1 kg, 1000 cycles)	NF EN ISO 5470-1	≤ 80 mg loss	≤ 50 mg loss
Static indentation resistance (ISO 4624 / EN 1542)	NF EN 1542	≥ 1.0 MPa	≥ 1.5 MPa
Chemical resistance to household acids/bases	NF EN ISO 2812-1	Class 3 (168 h)	Class 3 (168 h)
Water resistance (immersion)	NF EN ISO 2812-2	No swelling after 24 h	No swelling after 72 h
VOC classification	Dir. 2004/42/EC	Category — water-based	Category — water-based
UV resistance (acrylic vitrification)	NF EN ISO 11341	Not required (interior)	Not required (interior)

Chemya GmbH
office@yellostone.eu

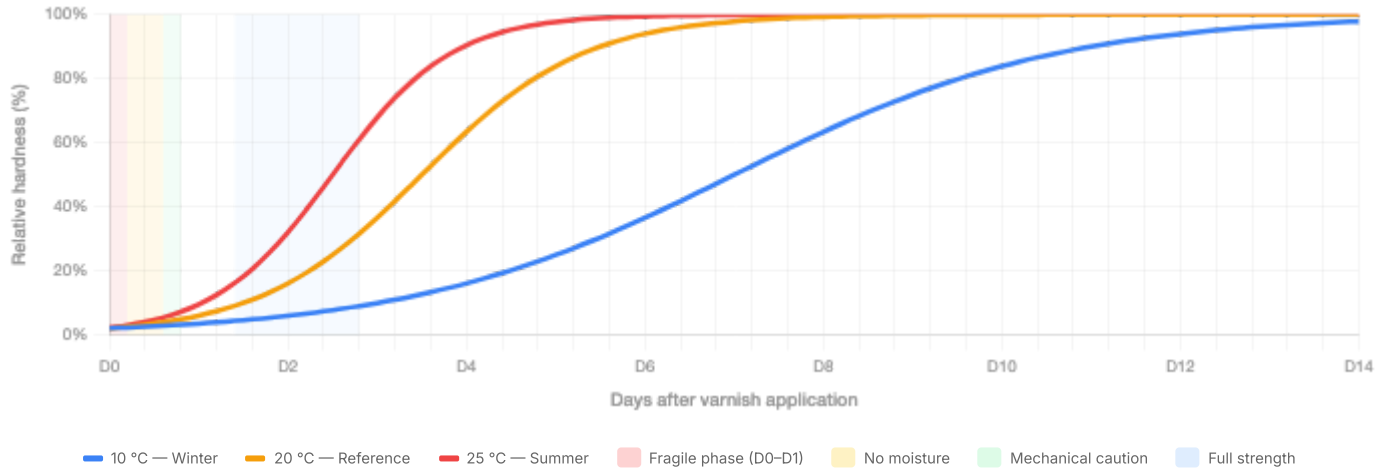
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Preliminary tests are recommended.
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UPEC CLASSIFICATION & APPLICABLE STANDARDS

STANDARD / REFERENCE	CLASSIFICATION / VALUE	SCOPE
UPEC classification (floor use)	U3 P3 E3 C2	Wear, Indentation, Water, Chemicals
NF EN 13813	CT-C25-F4	Screeds — flexural and compressive strength
NF EN 1542	≥ 1.0 / 1.5 MPa (adhesion)	Pull-off indentation resistance
NF EN ISO 5470-1	≤ 80 / 50 mg Taber loss	Abrasion resistance of varnish film
NF EN ISO 1522	Konig ≥ 80 / 110 s	Pendulum hardness of dry varnish
NF EN ISO 2812-1/2	Class 3	Chemical and water resistance
Directive 2004/42/EC: REACH	Compliant — water-based	VOC emissions – SVHC substances
GISCODE	D1	German classification of hazardous products
EMICODE	EC1	Very low indoor emissions

CURING CURVE

Curing kinetics under PU varnish as a function of temperature. Sigmoid curve calibrated on manufacturer data (full cure at D7 / 20 °C). Factor ×2 per +10 °C (simplified Arrhenius).



OPERATIONAL MILESTONES BY APPLICATION TEMPERATURE

TEMPERATURE	MOISTURE ALLOWED	MECHANICAL USE	FULL STRENGTH (95 %)
10 °C — Winter	Day + 6	Day + 8	Day + 16
20 °C — Reference	Day + 3	Day + 4	Day + 7
25 °C — Summer	Day + 2	Day + 3	Day + 5

CURING RECOMMENDATIONS

- During the first 24 h, do NOT cover the surface with plastic, tarpaulin or cardboard.
- No mechanical loading (foot traffic, rolling) before Day + 3 (at 20 °C).
- Do NOT wet the surface before Day + 3 (at 20 °C — adjust proportionally for other temperatures).
- Full curing by oxygen cross-linking requires a minimum of 7 days at 20 °C.
- At 10 °C, double all delays. Use a fan or site heater to accelerate curing.

MAINTENANCE

- Daily maintenance: pH-neutral soapy water (pH 6–8)
- Avoid abrasive products, solvents, concentrated bleach
- Heavy traffic: colourless self-polishing emulsion wax every 6–12 months
- Varnish renewal: 3–5 years depending on use

IMPORTANT NOTES

Do not apply on damp substrate or below 10°C. Slight shade variations are inherent to the product and do not constitute a defect. Make a reference sample before each project.

Chemya GmbH
office@yellostone.eu

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