Okamul PU-V rapid

1 - Component PU Pre-Coating - Fast-Drying, Moisture-Resistant, Solvent-Free

- 1-component, ready-to-use polyurethane primer – no mixing required
- Suitable for absorbent and non-absorbent substrates
- Fast drying – ready for the next step in ~50 minutes
- Provides a moisture barrier up to 4.0 CM-% / 90% RH on moisture-resistant substrates
- Encapsulates non-water-soluble adhesive residues, including bitumen and sulphite lye
- Strengthens weak, dusty, or damaged screed surfaces
- Low-Emission Certified: EMICODE EC 1Plus classification ensures very low VOC emissions,
- supporting healthy indoor air quality
- Enhanced with Kiesel Breathe Easy Technology and anti-microbial protection
- Fully compatible with Kiesel adhesives and leveling compounds
- VOC - 0.0 g/l

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DESCRIPTION

Okamul PU-V rapid is a solvent-free, anhydrous, fast-drying polyurethane primer designed for interior use on both absorbent and non-absorbent substrates. It enhances adhesion, regulates surface absorbency, and provides targeted moisture control as part of a high-performance floor preparation system.

Primary functions include:

- Priming prior to the application of Kiesel leveling compounds or tile adhesives
- Reinforcing structurally sound but weakened, porous, or chalky screeds
- Functioning as a moisture barrier on moisture-resistant cementitious substrates with elevated residual moisture levels:

  - Up to 3.0 CM-% (85% RH) with two coats

  - Up to 4.0 CM-% (90% RH) with three coats

- Sealing and protecting moisture-sensitive substrates, including:

  - Calcium sulphate screeds (anhydrite)

  - Chipboard, OSB, plywood

  - Gypsum-based boards (e.g., gypsum fiberboard or drywall)

- Encapsulating non-water-soluble adhesive residues (e.g., bitumen, cutback, sulphite lye), provided they are well-bonded and cleaned
- Providing compatibility with all Kiesel adhesives and floor preparation products, including Bakit wood flooring adhesives

 Very low emission formulation: Classified EMICODE EC 1Plus, supporting healthier indoor environments and green building standards (LEED, WELL, DGNB).
⚠ Not intended as a waterproofing membrane or for use in areas requiring full moisture suppression or hydrostatic resistance.

SUBSTRATE PREPARATION

All substrates must be clean, dry, load-bearing, and free from dust, oil, grease, old adhesive residues, or other contaminants that may inhibit adhesion. Surface preparation must comply with all relevant national regulations and current industry standards (e.g., DIN 18 365 / ASTM standards).

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- Absorbent substrates should be primed with **Okamul PU-V rapid** in one or more coats, depending on porosity and moisture levels
- Non-absorbent substrates must be coated with a minimum 2 mm layer of a Kiesel-compatible leveling or patching compound
- Adhesive residues must be non-water-soluble, well-bonded, and pre-tested for compatibility
- Always verify full system compatibility when combining Kiesel primers, leveling compounds, and adhesives

⚠ For moisture-sensitive substrates or elevated RH conditions, consult Kiesel system guidelines to ensure proper layer buildup and drying times.

PROCESSING

Preparation

- Bring the material to room temperature prior to use
- Shake or stir thoroughly until evenly mixed
- Do not dilute or add other materials

Application Method

- Apply using a lint-free velour roller or foam roller
- Spread evenly over the surface in a thin, continuous coat
- Avoid puddling or thick layers
- Allow to cure to a closed, fully formed film before proceeding

Use as a Primer (Pre-Coating)

Absorbent Substrates:

1. Apply 2 coats of **Okamul PU-V rapid**
2. Wait approximately 50 minutes between coats
3. Then either:

   a) Broadcast the second still-fresh layer with quartz sand (grain size 0.3 – 0.8 mm) to full excess onto the fresh second coat, before a skin forms.,

   b) Apply **Okatmos® EG 20** or **Okatmos® UG 30** on the already solid / cured surface before proceeding with leveling

Non-Absorbent Substrates:

1. Apply 1 uniform coat
2. Then either:

   a) Broadcast with quartz sand, or

   b) Apply **EG 20 / UG 30** directly over the cured PU layer

Use as a Moisture Barrier

Residual Moisture Level	Required Coats
≤ 3.0 CM-% / 85% RH	Apply 2 coats
≤ 4.0 CM-% / 90% RH	Apply 3 coats

For Moisture-Sensitive Substrates

- Apply 1 full coat of **Okamul PU-V rapid**
- After approx. 50 minutes curing, apply **EG 20** or **UG 30** prior to:

  - Installing thick-bed adhesives (>5 mm)

  - Applying leveling compounds in layers >10 mm

Working Window

- All subsequent installation steps should be performed within 48 hours of applying **Okamul PU-V rapid**
- For tile and stone installations:

  - Install within 48 hours

  - If installation is delayed, lightly sand the existing layer and apply a single coat of **Okamul PU-V rapid**. Immediately after applying the new coat, either

- broadcast 0.3 – 0.8 mm quartz sand to excess while the surface is still fresh (before a skin forms), or
- allow the coat to cure, then prime it at once with one layer of **Okatmos® EG 20** or **Okatmos® UG 30** before continuing with the installation.

SPECIFICATIONS

Color	Brownish, transparent
Application	Interior use – floors and walls
Application temperature	+15 °C to +25 °C (5S°F to 77°F, substrate temperature)
Cure time*	~50 minutes before overcoating ~3 hours before bonding hardwood with Bakit Adhesives
Floor heating system	Suitable

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GISCODE	RU 1 (TRGS c10 compliant)
EMICODE	EC 1^{Plus} (very low emission – GEV)
VOC-marking	0,0 g/L
Storage	12 months (in sealed, climate-controlled conditions)

* At 20°C / 68°F and 65% RH.
Cure time is influenced by environmental conditions — lower temperatures and higher humidity extend drying time, while higher temperatures and lower humidity reduce it.

IMPORTANT NOTICE

For professional use only.
Please refer to the Safety Data Sheet for more detailed information.

Important Notice:
Under unfavorable ambient conditions (low temperatures and relative humidity below 40%), a longer curing time of at least 3 hours must be observed before bonding hardwood flooring.

COVERAGE

Application Type	Consumption	Coverage (per unit)
As a Pre-Coating	approx. 100–150 g/m^2	approx. 790–1.184 ft^2
As Moisture Barrier	approx. 300–350 g/m^2	approx. 338–395 ft^2

Coverage rates vary depending on surface porosity, substrate texture, and application method. Actual results may vary on site.

TOOLS

Lint-free velour roller or foam roller

CLEANING

Clean all tools immediately after use with **Ki CleanTex** or ethanol
Do not allow product to dry on tools

PACKAGING

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Description	Item No.	
11 kg/ 2.74 U.S. gal/ 10.36 Liters plastic canister	60077	4015705600772

The aforementioned information, especially the proposals for processing and utilizing our product, is based on our knowledge and experience. We recommend that you carry out your own tests in every case to ensure the suitability of our products for the intended process and processing purposes because of the different materials and the working conditions which lie beyond our area of influence. No liability can be derived from this advice or from verbal advice, unless we are responsible for (criminal) intent or gross negligence in this respect.

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