FASTPROTEC

CLEAR ALIPHATIC POLYASPARTIC PROTECTIVE COATING

FAST CURING
RAPID RETURN TO SERVICE

EXTENDED POT LIFE
IMPROVED WORKABILITY

UV + WEAR
HIGH RESISTANCE

TWO FINISHES
MATT OR GLOSS

PRODUCT DESCRIPTION

FASTPROTEC is a two-component, clear aliphatic polyaspartic protective coating for LUNIK decorative systems and compatible epoxy or polyurethane floors. It forms a hard, fast-curing film with excellent abrasion resistance, improved scratch resistance and good UV stability. Its extended pot life provides a longer working window than conventional fast-reacting polyaspartic coatings, improving application control and finish uniformity. FASTPROTEC is available in matt or gloss finish and is intended for professional application in thin, controlled coats.

KEY BENEFITS AND USES

- Transparent protective coating available in matt or gloss finish.
- Fast curing and rapid return to service compared with conventional polyurethane coatings.
- High abrasion resistance and improved resistance to scratching and wear.
- Aliphatic chemistry with good UV stability and reduced yellowing.
- Applied directly over compatible LUNIK decorative coatings without a separate primer.
- Suitable for correctly prepared epoxy and polyurethane flooring systems.
- Extended pot life compared with conventional polyaspartic coatings, allowing easier distribution, cross-rolling and finishing.
- The final appearance and performance depend on substrate preparation, film thickness, number of coats and curing conditions.

TECHNICAL DATA

PROPERTY	VALUE	COMMENTS
Product type	Two-component aliphatic polyaspartic coating	Clear protective film
Finish	Matt or gloss	Select the required variant when ordering
Mixing ratio A:B	5 : 2	Equivalent to 2.5 : 1; use complete kits or accurately proportion partial kits
Calculated non-volatile content A+B	Approx. 98%	Calculated mixed-system value; confirm by an agreed test method such as ISO 3251
Pot life	Approx. 30 min	Extended working time at 20°C compared with conventional polyaspartics
Indicative consumption / coat	Approx. 150 g/m²	Do not exceed 200 g/m² per coat
Light traffic	Approx. 2 h	At 25°C under suitable conditions
Heavy traffic	Approx. 24 h	At 25°C under suitable conditions
Full chemical cure	Approx. 7 days	Protect from chemical exposure until fully cured
Taber abrasion loss	Approx. 75 mg	CS17 / 1000 cycles / 1000 g

Values are indicative. The 98% is a calculated formulation value. Confirm by ISO 3251 or another agreed method; it is not reactive binder solids or VOC content. Application and cure times vary with site conditions.

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SUBSTRATE AND APPLICATION PREPARATION

GENERAL SUBSTRATE REQUIREMENTS

- The existing coating system must be stable, sound, clean, dry and compatible with FASTPROTEC.
- Remove dust, grease, wax, weak material and any contamination that may impair adhesion or affect the transparent finish.
- Prepare the surface by uniform sanding or mechanical abrasion when required, then vacuum thoroughly.
- Existing epoxy or polyurethane coatings must be within their approved overcoating window or uniformly abraded before application.
- Do not apply over rising damp, negative water pressure or substrates without a suitable moisture-control system.
- Carry out an adhesion, transparency and finish trial before application, especially on unknown coatings and decorative systems.

APPLICATION METHOD SELECTION

SURFACE TYPE	APPLICATION METHOD	GUIDANCE
Smooth coated surfaces	Fine-pore foam roller	Apply a thin, controlled coat and cross-roll immediately for uniform appearance.
Lightly flake-broadcast surfaces	Fine-pore foam roller	Respect the specified consumption and avoid puddles or excessive reworking.
Quartz-saturated or heavily textured surfaces	Rubber squeegee or hard rubber trowel + short-nap roller	Distribute evenly, then cross-roll immediately to regulate the film.
Existing coating outside its recoat window	Uniform mechanical abrasion	Sand the complete surface, vacuum thoroughly and approve a test area before coating.

DIRECT APPLICATION - NO SEPARATE PRIMER

FASTPROTEC is applied directly over the compatible, correctly prepared coating system. No separate primer is required. Respect the overcoating window of the underlying epoxy, polyurethane or LUNIK decorative system; if it has expired, abrade uniformly and remove all dust.

SURFACE PREPARATION SEQUENCE

1. **INSPECT THE SUBSTRATE**

   Confirm strength, stability, dryness and compatibility. Identify contamination, weak layers, moisture, active cracks and joints before work begins.

2. **PREPARE THE EXISTING COATING**

   Clean thoroughly and sand or mechanically abrade when required. Remove all residues and vacuum the complete surface.

3. **RESPECT THE EXISTING RECOAT WINDOW**

   Apply over compatible epoxy or polyurethane coatings before their approved overcoating time expires. If exceeded, abrade uniformly and remove all dust.

4. **SELECT THE APPLICATION METHOD**

   Use a fine-pore foam roller on smooth or lightly broadcast surfaces. On quartz-saturated or heavily textured surfaces, distribute with a rubber squeegee or hard rubber trowel and cross-roll with a short-nap roller.

5. **APPROVE A TEST AREA**

   Check adhesion, wetting, transparency, sheen and roller texture before full application. FASTPROTEC is transparent, so defects, surface variations and roller marks may remain visible.

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MIXING AND APPLICATION SEQUENCE

MIXING COMPONENTS A + B

Homogenise component A slowly before use. Add component B in the specified 5:2 ratio and mix with a low-speed electric mixer at approximately 300-400 rpm, avoiding air entrainment. Scrape the sides and bottom, transfer the mixture to a clean container and mix again briefly. Prepare only the quantity that can be applied within the working time.

MIXING CONTROL	REQUIREMENT
Ratio	5 parts component A : 2 parts component B (equivalent to 2.5 : 1).
Mixing method	Low-speed mechanical mixing; scrape the container and double-mix in a clean pail.
Application control	Typical pot life is approximately 30 minutes at 20°C, providing more working time than conventional fast-reacting polyaspartics.
Partial kits	Permitted only when both components are accurately proportioned. Never estimate the ratio by eye.

APPLICATION DISCIPLINE

FASTPROTEC combines rapid curing after application with an extended pot life for improved workability. Higher material and ambient temperatures, large mixed volumes and prolonged mixing shorten the useful working time. Never extend pot life with solvent and never use material that has thickened or heated up.

APPLICATION SEQUENCE

1. **TEXTURED OR BROADCAST SURFACES**

   Distribute FASTPROTEC with a rubber squeegee or hard rubber trowel. Immediately cross-roll with a suitable short-nap roller to regulate the film and obtain a uniform finish.

2. **SMOOTH SURFACES**

   Apply approximately 150 g/m² with a fine-pore foam roller. Work in small controlled areas, maintain a wet edge and cross-roll immediately. Avoid puddles, foam and excessive reworking.

3. **APPLY THE SECOND COAT**

   Apply two coats in total. At 20°C and 50% relative humidity, apply the next coat after at least 2 hours and within 12 hours. Temperature, humidity, airflow and substrate conditions may alter this interval.

4. **CORRECT AN EXCEEDED INTERVAL**

   If 12 hours are exceeded, abrade the entire surface uniformly with P400, vacuum and remove all dust before applying the next coat.

ENVIRONMENTAL CONTROL

Apply between 10°C and 30°C with relative humidity below 80%. The substrate temperature must remain at least 3°C above the dew point. Avoid condensation, direct intense heat, strong draughts and temperature changes during application and early curing. Use only electric heating where heating is required; combustion heaters can contaminate the coating.

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FINISH, RECOATING AND CURING

BEFORE APPLICATION

- Confirm that the substrate is uniformly prepared, dry, dust-free and within the approved overcoating window.
- Condition the product and work area whenever possible; temperature has a strong effect on viscosity, consumption and working time.
- Select matt or gloss before starting and approve the appearance on a representative sample.

FINISH CONTROL

FASTPROTEC is transparent and can deepen the colour of mineral or decorative surfaces. Matt and gloss versions produce different visual depth and light reflection. Always approve colour, sheen and roller texture on the complete specified system before application.

RECOMMENDED FASTPROTEC APPLICATIONS

SUBSTRATE / SYSTEM	PRODUCT	COATS	RECOAT
LUNIK decorative floors	FASTPROTEC	2	2-12 h
Compatible epoxy floors	FASTPROTEC	2	2-12 h
Compatible polyurethane floors	FASTPROTEC	2	2-12 h

RECOAT WINDOW

At 20°C and 50% relative humidity, apply the second FASTPROTEC coat after at least 2 hours and within 12 hours. Environmental and substrate conditions may alter this interval. If 12 hours are exceeded, sand the complete surface uniformly with P400 and remove all dust before continuing. Never coat isolated areas only, as differences in sheen or roller texture may remain visible. Respect the overcoating requirements of any underlying epoxy or polyurethane system.

RETURN TO SERVICE AND CARE

- Protect the freshly coated surface from dust, water, condensation and traffic during curing.
- Indicative return to service at 25°C: light traffic after approximately 2 hours and heavy traffic after approximately 24 hours.
- Do not expose the surface to chemicals until full cure, approximately 7 days under suitable conditions.
- Clean with neutral products and soft tools. Avoid strong acids, aggressive solvents and abrasive pads.
- Use entrance mats and felt protection under furniture; avoid dragging heavy or sharp objects.

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LIMITATIONS, SAFETY AND STORAGE

LIMITATIONS AND WARNINGS

- Professional application only. Follow the latest labels and safety data sheets for both components.
- Do not apply on unstable, contaminated, damp or insufficiently prepared substrates.
- Do not apply below 10°C, above 30°C or when relative humidity exceeds 80%.
- Do not apply when the substrate is less than 3°C above the dew point.
- Do not exceed 200 g/m² per coat; excessive thickness can trap solvent, delay curing or impair appearance.
- Do not dilute and do not add unauthorised additives.
- Do not use mixed material that has thickened, heated up or exceeded its working time.
- Do not apply over rising damp or negative water pressure without a validated moisture-control system.
- Chemical exposure may change colour or sheen without necessarily reducing the protective function.
- Batch, roller, consumption and application differences can affect the uniformity of transparent matt or gloss finishes.

SAFETY AND TOOL CLEANING

Use adequate ventilation, protective eyewear, chemical-resistant gloves and suitable protective clothing. Avoid skin and eye contact and do not breathe vapour or spray. Refer to the safety data sheets before use. Clean tools immediately after application with the recommended solvent; cured material can only be removed mechanically. Dispose of residues and containers according to local regulations.

STORAGE AND SHELF LIFE

Store components in their original, tightly closed containers in a cool, dry and ventilated place, protected from frost, moisture, heat and direct sunlight. Do not store above 35°C. Indicative shelf life: 12 months from manufacture when correctly stored. Keep components separate and prevent contamination.

SYSTEM SUMMARY

STEP	PRODUCT / ACTION
1 · Prepare	Inspect, mechanically prepare and vacuum the compatible substrate. Control moisture and dew point.
2 · Select the method	Fine-pore foam roller on smooth surfaces; rubber squeegee or hard rubber trowel followed by cross-rolling on textured surfaces.
3 · Mix	Mix components A:B at 5:2 (2.5:1) with a low-speed mixer; transfer to a clean pail and mix again briefly.
4 · Apply	Apply approximately 150 g/m² per coat and cross-roll immediately. Apply two coats in total.
5 · Recoat and cure	At 20°C and 50% RH, recoat after at least 2 h and within 12 h; if exceeded, sand with P400. Protect until full chemical cure, approximately 7 days.

TECHNICAL RESPONSIBILITY

The information is based on current knowledge, internal data and typical applications. Site conditions, substrate quality and workmanship are outside LUNIK control. The applicator must verify compatibility, consumption, adhesion, appearance and curing by testing. This document does not replace the safety data sheets or a project-specific technical specification.