PA-100 LV

Low Odour Polyaspartic Top Coat

DESCRIPTION

PA-100LV is a solvent free, low odour polyaspartic resin that delivers outstanding protection and decorative finishes for concrete floors. Developed with advanced aliphatic polyurea technology, it is fast curing while offering excellent resistance to abrasion, impact, chemicals and mechanical stress. Its superior UV stability and gloss retention make it ideal as a durable topcoat, protecting against yellowing and enhancing both performance and appearance.

Suitable for use in industrial, commercial and residential flooring, **PA-100LV** performs exceptionally well in high traffic areas, on surfaces exposed to chemicals or wear, and as a clear or pigmented topcoat for epoxy or decorative systems where rapid turnaround is required.

Features & Benefits

- **Long lasting protective topcoat with a glossy finish**
- **Excellent chemical resistance**
- **Excellent abrasion resistant**
- **UV stability with no yellowing**
- **Fast curing**
- **Solvent free, low odour**

Packaging Kit

PA-100LV is supplied in pre-weighed units to ensure correct mixing ratios:
5 kg unit (Part A + Part B)

Coverage

Typical consumption is **0.20–0.25 kg/m² per coat.**
A 5 kg unit will cover approximately 25 m² per coat.
Coverage may vary depending on substrate porosity, surface profile and application method.

Environmental Conditions

Application should take place between 10 °C and 30 °C with substrate temperature at least 3 °C above the dew point. Ambient relative humidity should not exceed 75 % during application and for the first 48 hours of curing. Adequate ventilation is required to promote uniform curing.

Installations outside of these parameters may affect curing time, surface appearance and long term performance. For concrete bases in direct contact with the ground, a damp proof membrane should be incorporated into the slab design in accordance with CP102 Code of Practice for Protection of Buildings Against Water from the Ground.

Substrate Requirements

Concrete substrates must achieve a compressive strength of at least 25 N/mm² and a tensile strength above 1.5 N/mm². Substrates must be dry (maximum 75 % RH, unless a moisture tolerant primer is used), clean, sound and free from laitance, dust, oils, grease, curing agents or contaminants. Mechanical preparation such as shot blasting or grinding is recommended.

Priming Requirements

PA-100LV should always be applied over a primer to ensure full adhesion:

- Dry substrates (<75 % RH): apply **EPR-100 Solvent Free Epoxy Primer.**
- Damp substrates (>75 % RH): apply **DPM-230 Moisture Tolerant Epoxy Primer.**

Highly porous surfaces may require two primer coats.

Mixing

All components should be conditioned to 15 °C – 25 °C before use. Part A (Resin) is poured into a clean container and Part B (Hardener) is added. The two parts are mixed using a slow speed drill (300–400 rpm) until a uniform blend is achieved. The mixed product must be applied immediately.

Product Application

Apply to the prepared substrate using a roller or brush in two or more thin coats, ensuring full and even coverage. The second coat should be applied within the overcoating window (typically 16–24 hours at 20 °C). **PA-100LV** can be used as a clear or pigmented topcoat, providing durable protection with a decorative finish.

Appearance

PA-100LV provides a smooth, glossy finish with excellent clarity and colour retention. It can be supplied as clear or pigmented, delivering a decorative surface with long lasting aesthetic appeal.

Chemical Resistance

PA-100LV exhibits excellent resistance to a wide range of oils, salts, alkalis, and dilute acids, making it suitable for use in demanding industrial environments.

Product Confines

PA-100LV should not be applied to damp or contaminated substrates, or where rising moisture is present. Application outside the recommended temperature or humidity ranges may affect curing and final performance. The product should only be applied when the substrate temperature is at least 3 °C above the dew point and ambient relative humidity is below 80%. It is not designed for use as a standalone moisture barrier or in continuous immersion. Over application or excessive film thickness can lead to extended curing times or surface defects.

Cleaning

PA-100LV floors should be maintained through regular cleaning using scrubber dryers or rotary machines fitted with soft pads, together with a neutral pH cleaning solution diluted in warm water. Daily sweeping or vacuuming is recommended to remove dust and grit that may cause abrasion of the surface. Spills of oils, foodstuffs or chemicals should be removed promptly with a damp mop to prevent surface staining.

For periodic maintenance, a mild neutral detergent may be used followed by rinsing with clean water. Abrasive powders, steam cleaners, highly alkaline or acidic products must be avoided as they can dull or damage the gloss finish.

Health & Safety

Refer to the Safety Data Sheet (SDS) before use. Applicators must wear appropriate PPE including chemical resistant gloves, safety glasses and respiratory protection in poorly ventilated areas.

Disposal of Containers

Empty containers must be treated with the same precautions as full ones and disposed of via an authorised hazardous waste contractor.

Any remaining Part A and B should be mixed together and allowed to cure before disposal.

Additional Information

Jofa Resins endeavour to ensure that all product guidance provided is accurate and correct. Information given by or on behalf of Jofa Resins is based on tests and installations and on our current knowledge and experience. It implies no warranty or guarantee arising from the use of its products as the substrate and site conditions and the actions of any installation team involved in product application is beyond our control. Whether or not in accordance with any advice, recommendation, specification, or information given by Jofa Resins.

Jofa Resins products are guaranteed against defective materials and manufacture and are sold subject to our standard terms and conditions of sale, copies which can be obtained upon request.

Please contact the Jofa Resins Technical Department for further assistance.

TECHNICAL INFORMATION

Shelf Life	12 Months when stored in unopened containers under proper conditions.
Pot Life Temp 20°C	15 - 20 Minutes
Curing Schedule 20°C	**Foot traffic:** 2 h • **Light traffic:** 24 h • **Full cure**: 7 days
Density	**Part A:** ~1.06 g/cm³ (colourless) ~1.11 g/cm³ (pigmented) **Part B:** ~1.15 g/cm³
Mixed Density	~1.08 g/cm³ (colourless) ~1.13 g/cm³ (pigmented)
FeRFA Floor Guide	Type 3
Storage	This Product must be stored off the ground in original packaging, unopened and un-damaged. The ambient conditions must be dry and between 10°C and 30°C with no direct sunlight. Protect from frost.
Wear resistance EN 13892-4	Class AR0.5
Impact Resistance EN ISO 6272	14.7 Nm
Adhesion Strength EN 13892-8	>2.0 N/mm²
Fire Classification EN 13501-1	B_{fl}-s1

The above values, based on laboratory tests and our practical experience with this product, represent typical properties measured under standard laboratory conditions of 20 °C and 50 % relative humidity.

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