

# PURVASEAL-PA70®

Edition 01025

## Solvent based acrylic aliphatic polyurethane clear coat

**PURVASEAL-PA70** is a two-component, solvent-based acrylic aliphatic polyurethane with a 35% solids content, specifically formulated to deliver a non-yellowing clear coat for concrete, cement-based overlays, and as a final topcoat over epoxy systems. This advanced coating combines superior strength, UV stability, flexibility, and resistance to chemicals and scratches, all while being easy to apply and exceptionally durable. **PURVASEAL-PA70** is perfectly suited for both commercial and residential environments, especially in high-traffic areas where a highly durable flooring solution is essential.

### Advantages

- Provides a Tough hard wearing and flexible film with excellent hardness.
- Excellent color retention and weathering resistance.
- Easy to apply and economic.
- Has Excellent water resistance.
- Safe when used for food contact applications
- Cures at low temperatures.
- Excellent resistance against a wide range of industrial chemicals.

### Uses

**PURVASEAL-PA70** is specially developed to be a top coat for the following:

- Concrete floors of Garages
- Storehouses
- Manufacturing facilities
- Hospitals
- Automotive showrooms
- Aircraft hangars
- Clean room floors
- Warehouses
- Residential floors
- Swimming pools

Or any high traffic area where an exceedingly resilient floor is desired.

### Suitable Surfaces

- Steel and non-ferrous metals properly prepared and blast cleaned to ISO-Sa2½
- Concrete free of contamination, dust and efflorescence, and properly prepared
- Wood must be abraded with sand paper No. 320 and primed with PU or polyester wood sealer

### Technical characteristics of mix at 25° C

Color	Transparent		
Finish	High gloss, Semi-gloss, Matt		
Toxicity	Non-toxic after drying		
Mixing Ratio by weight	5: 1 (Base: Hardener)		
Pot life	2 hours		
Complete cure	5 days		
Dry film thickness range	25 – 100 µm		
Theoretical spreading rate	7 m <sup>2</sup> / L @ 50 microns DFT (loss factors will apply in practice)		
Flash point	28°C		
VOC	629 g/l		
Solid content	35 ± 2 %		
Surface dry	10°C: 60mins	25°C: 30mins	40°C: 15mins
Through dry	10°C: 4hrs	25°C: 2hrs	40°C: 1hr
Dry to recoat	10°C: 12hrs	25°C: 4hrs	40°C: 2hrs

### Package & Coverage

**PURVASEAL-PA70** is supplied in Kits (A+B) of 5L & 18L. (Other pack sizes may be available for large orders)

Approximate film thickness & Coverage rate on smooth surface is as follows:

	Minimum	Maximum	Typical
Film thickness, dry (µm)	25	100	50
Theoretical Spreading Rate (m <sup>2</sup> /L)	14	3.5	7

Exact consumption depends on the type and roughness of the substrate.

### Application Instructions

#### ➤ Surface preparation

- It is recommended that the concrete must have a minimum tensile strength of **1.5 N/mm<sup>2</sup>** when tested in accordance with **BS EN 1542 or BS 1881: Part 207**.
- New concrete floors must be allowed to cure for at least 28 days and shall have an effective Vapour-proof membrane below to prevent rising dampness and encapsulation.

- All substrates to be coated must be solid, thoroughly clean and free from laitance, dust, loose particles, oil, wax, grease, asphalt, latex and gypsum compounds, curing compounds, sealers and any contaminant that might act as a bond breaker.
- Overwatered, frozen or otherwise weak concrete surfaces must also be cleaned down to sound, solid concrete by mechanical methods.
- The substrate must be rough, porous and load bearing. If necessary, mechanically clean down to a sound, solid substrate by shot blasting or similar. Any additional preparation required to achieve these profiles must likewise be mechanical.
- Concrete must have a minimum ICRI Concrete Surface Profile of 1 to 3 (CSP #1 to CSP#3).
- Dust and other debris should be removed using vacuum equipment.
- Substrate and ambient temperatures must be at least 10 - 35°C during the application of **PURVASEAL-PA70**.

#### ➤ **Mixing**

- **PURVASEAL-PA70** comes in a 5 kg or 10 kg kits with separate, pre-weighed amounts of hardener (Part B) and base (Part A).
- Before blending, thoroughly stir the individual components after opening each container.
- The base (Part A) is mixed with the hardener (Part B).
- Pour in all of the hardener and thoroughly mix for at least 3 minutes with a low-speed drill (300 rpm) and an epoxy mixing paddle.
- Pour some of the material back into the hardener container after it has been mixed, mix for 10 seconds, and then pour the entire contents back into the resin container. Mix for another 30 seconds before applying.
- Thinning should only take place after the two components have been thoroughly mixed. Thin if required with 0-5% **Paint Thinner PT908** for brush and roller application, 5-25% for air spraying & 0-20% for airless spraying.
- **Note:** Once mixed, **PURVASEAL-PA70** will generate heat and lose working time if it is left in the mixing container or otherwise kept in bulk.

#### ➤ **Application**

- As a thin mil system, most commonly a roller ranging in nap size from mohair to 3/8" (9.5 mm) is appropriate. Rollers should be premium quality with phenolic core.
- Avoid all general traffic over the surface for a minimum of 8 hours.
- Saturate roller in pan or pail with roller grid, and remove excess product to prevent excessive dripping. Any drips require rolling out.
- First coat may "stand alone" as a single coat depending upon application selected, or applicator and client choice. First coat may also serve as Finish or Top Coat.
- A second coat is applied as soon as the first coat has dried. This time will vary depending upon the condition of the surface and the ambient temperature.
- If first coat has cured beyond 48 hours or if dust or debris has settled into it as it cured, it must be scuffed with a rotational floor machine equipped with a black pad or a 100-grit sanding screen. Follow scuffing or screening with vacuuming. Follow vacuuming with a micro-fiber wipe with a solvent such as xylene, acetone, or denatured alcohol. Proceed with second coat as described above.
- Provision for ventilation and air movement will be required. When using new rollers, ensure that all loose fibers are removed prior to use, any loose fibers released from the roller will cause unsightly blemishes in the finished coating.

#### ➤ **Precautions**

- **This product is for professional use only. Handle with care. Stir well before use.**
- All tools used must be cleaned immediately after application using a suitable solvent.
- **PURVASEAL-PA70** is highly affected by heat. While high temperature decreases its working time, low temperature increases it. **PURVASEAL-PA70** is exothermic when mixed and highly reactive, so use it immediately after mixing without interruption.

### **Health and safety**

**PURVASEAL-PA70** should not come into contact with food, mouth, skin or eyes during application. Always wear safety goggles, dust mask and gloves. If skin contact occurs, wash thoroughly with clean water. Should eye contact occur, rinse immediately with plenty of clean warm water for 15 minutes and seek medical advice. If accidentally swallowed, drink 2 cups of clean water and seek medical advice. Keep away from children reach. Avoid inhalation of spray mist.

**PURVASEAL-PA70 is flammable, so keep it away from any source of smoke, sparks or flame.**

### **Storage & shelf life**

Keep the containers in a dry, cool, well-ventilated space and away from source of heat and ignition. Containers must be kept tightly closed. The shelf life of the product is two years in its original sealed packing, stored in a cool dry place.

### **Technical support**

For any technical support, please consult our technical office or representatives.

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