

ASP 90

ASP 90 is a 90% solids, clear or coloured Polyaspartic that will not yellow, is tough, fast-curing and trafficable. With a fast return to service, wide colour range available and its non-slip properties, ASP 90 is great for all flooring applications.

INTENDED USES

- COMMERCIAL FLOORING
- SHOPPING CENTRE FLOORING
- RESIDENTIAL GARAGE FLOORING
- WAREHOUSES
- RESTAURANTS
- SHOWROOMS



ADVANTAGES / FEATURES

- Fast cure at ambient temperature
- Good wear resistance
- Full cure down to 5°C
- Convenient 1:1 by volume mix ratio
- Low VOC
- High abrasion and impact resistance

LIMITATIONS

- Gel time and thin-film dry times are heavily dependent on temperature, humidity and film thickness.
- Thick films will take longer to cure. High humidity and temperature will shorten thin-film cure time.
- Mix smaller batches in extreme conditions. Test the gel time and thin-film dry times before commencing a large job. Stop application 5 minutes before the product gels in order to minimise air-bubble entrapment.
- Not to be used as a UV blocker to prevent discolouration of non-colourfast products underneath. The only way to ensure colourfastness of the product underneath is to use a coloured ASP.

PRODUCT INFORMATION

Volume Solids	87.5% (90% Solids by Weight)
Theoretical Coverage	8 Square Meters / Litre at 125 Microns DFT
Finish	Pigmented or Clear
Colour	Australian Standard (AS2700) + Clear Finish
Gloss	Glossy
Mixing Ratio	1:1 by volume
Pot Life	30 min @ 25°C
Typical Thickness	87.5 to 105 Microns DFT (100 to 120 Microns WFT)
Cleaner	Xylene
Flash Point	97°C – Part A and 23°C – Part B
VOC	108 Grams / Litre
Specific Gravity	1.08

ENGINEERING DATA

Property	Test Method	Results
Abrasion Resistance	ASTM c501-84, 1,000rpm with 1,000g weight H18 wheel CS17 wheel	N/A N/A

SURFACE PREPARATIONS

Concrete Surface Application

The concrete surface preparation must be conducted under the SSPC-SP13/NACE No. 6 surface preparation standard for concrete. This standard covers the preparation of concrete surfaces before the application of protective coating or lining systems.

The concrete should be at least 28 days old. Ensure that the moisture content of the concrete is less than 7% before applying any coatings. A moisture test, as outlined in ASTM D4263, can be used to confirm the moisture content.

CURE & RECOAT TIMES

Substrate Temp	Tacked	Hard Dry	Full Cure	Minimum Recoat Time	Maximum Recoat Time
10°C	8 Hrs	18 Hrs	9 Days	18 Hrs	6 Days
15°C	4 Hrs	12 Hrs	6 Days	12 Hrs	4 Days
25°C	2 Hrs	6 Hrs	6 Hrs	6 Hrs	2 Days
40°C	1 Hr	3 Hrs	3 Hrs	3 Hrs	1 Day

Note: Exposure to UV will reduce the recoat window

POT LIFE INFORMATION

Minimum Product Temperature	Pot Life (Note 1)
10°C	90 min
15°C	60 min
25°C	30 min
40°C	15 min

Note 1: Pot life is dependent on product temperature as well as mix size. When using larger mix sizes, the pot life will be shorter. Keep products cool.

- Remove all oil, grease and release agents in the concrete. Ensure that any laitance or other invisible contaminants have been removed. Be especially careful with concrete surfaces that have been in contact with form ply or moulds that may contain release agents. These release agents commonly contain heavy hydrocarbon waxes or silicones that can adversely affect the adhesion.

Contaminant may also be present below the surface as it may have penetrated the concrete. This can be the case in food processing facilities for example. Depending on the depth of the contaminant this may require solvent and /or hot water high pressure cleaning.

Prepare the concrete surface to a clean, dry finish through ensuring that the water and air used in the decontamination of the concrete is clean.

APPLICATION GUIDELINES

Mixing Procedure

Always stir ASP 90 (Coloured pigmented) and ASP 90 – Part B (Clear) in its original container well before use. Mechanically mix (by volume) 1 Part of ASP 90 – Part A with 1 Part of ASP 90 – Part B hardener (1:1). Do not vary from this ratio. *Avoid entrapping air during mixing.*

Equipment

Roller (Preferred):	Suitable
Airless 60:1 Pump:	Tip Range 21-26 Thou (0.53mm - 0.66mm). Output fluid pressure at spray tip not less than 3000 PSI (210 kg/cm ²)
Brush:	Suitable for smaller areas
Alternative application:	Plural component equipment from Graco that automatically meters and mixes ASP 90 such as Graco XM or Graco XP.
Temperature of material at gun:	Ambient (20°C - 30°C)

Environment

Relative Humidity:	The relative humidity must be less than 85%
Dew Point:	The substrate temperature must be at least 3°C higher than the dew point temperature
Substrate Temperature:	The substrate temperature must be a minimum of 5°C

Thinning

Thinning of ASP 90 is not considered necessary or desirable.

Clean Up

Xylene may be used for general clean-up of equipment and hoses. To remove cured material from metal parts, soak in NeuraSol. Keep all gun part A side components in soak containers on the left side of the workbench and all part B side components on the right side of the workbench. The use of plastic soak containers with clip-on lids and removable baskets makes the job easier. Replace the NeuraSol regularly as soon as it starts turning cloudy and dirty.

Concrete – Solid Colour Application

- Apply ASP 90 thinned with thinner directly to the concrete to seal the concrete (two coats may be required if the concrete is 'hungry').
- Apply one coat of ASP 90 pigmented. For best results apply ASP 90 in the evening when the concrete is cooling down and not outgassing.
- The next coat of ASP 90 clear can be applied as soon as the ASP 90 has tacked or the following morning when the ASP 90 has cured.

Concrete – Flake or Aggregate Application

- Apply ASP 90 thinned with thinner directly to the concrete to seal the concrete (two coats may be required if the concrete is 'hungry')
- Apply one coat of ASP 90 before broadcasting decorative flakes directly onto the wet coat of ASP 90. When dry, remove excess flakes with vacuum, blower or broom prior to application of ASP 90 Clear topcoat. For a smooth finish, sand the flakes prior to application of the clear ASP 90 topcoat.
- The next coat of ASP 90 clear can be applied as soon as the ASP 90 has tacked or the following morning when the ASP 90 has cured.

Note 1: In all applications, it is important to follow the guidelines outlined in each product's TDS. Each product must be fully cured prior to application of the following coat (See recoat schedule).

TYPICAL SYSTEMS

Substrate	Environment	Substrate Prep	Coat	System	DFT
Concrete	Flooring Flake	Diamond Grind	1 st Coat	ASP 90 – Thinned	4 – 6 m2/L
			2 nd Coat	ASP 90 – Pigment	100µm
			3 rd Coat	ASP 90 - Clear	100µm
Concrete	Flooring Flake	Diamond Grind	1 st Coat	ASP 90 – Thinned	4 – 6 m2/L
			2 nd Coat	ASP 90 – Pigment	100µm
			3 rd Coat	Polygloss 36 (Clear)	100µm

PACK SIZE

10L Kits:	5L of ASP 90 – Part A in a 5L Pail 5L of ASP 90 – Part B in a 5L Pail
20L Kits:	10L of ASP 90 – Part A in a 10L Pail 10L of ASP 90 – Part B in a 10L Pail
40L Kits:	20L of ASP 90 – Part A in a 20L Pail 20L of ASP 90 – Part B in a 20L Pail
400L Kits:	200L of ASP 90 – Part A in a 200L Pail 200L of ASP 90 – Part B in a 200L Pail

COMPATABILITY INFORMATION

Primers:	EPO-Prime LV ASP 90
Top Coats:	ASP 90 Polygloss 36

STORAGE AND HANDLING

Store in dry, shaded conditions away from sources of heat and ignition and in properly sealed containers. Protect from heat and frost.
A shelf life of 24 months minimum is typical if stored under ambient conditions at 25°C.

HEALTH AND SAFETY

ASP 90 is for professional use only.

This product should not be used without consulting the Safety Datasheet (SDS) as published on the LuxCoat or Floor and Flake website first.

Observe all health and safety as well as environmental legislation.

DISCLAIMER

The information contained herein is offered without charge and is for use by technically qualified personnel at their own risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and no warranty of any kind is made with respect thereto.
