

# Opalon – S30

## Gloss Polyaspartic Colour Topcoat

### PRODUCT DESCRIPTION

Opalon – S30 is a very high 80% volume solids, glossy coloured polyaspartic coating that is tough, fast curing and low VOC. It is normally applied over Liquimix epoxy coatings or polyurethane sealers to produce a beautiful, durable glossy finish

### INTENDED USES

- Commercial, industrial, residential flooring and walls
- Food processing plants flooring and walls
- Hospital flooring and walls
- Topcoat for protective coatings on steel structures
- Topcoat for high value infrastructure
- Topcoat for bridges
- Topcoat for mining structures

### FEATURES

- Excellent UV resistance
- Fast cure and rapid return to service
- Good wear resistance
- Easy to clean
- Low VOC
- Good chemical resistance
- Available with an extensive colour range using the **LiquiChrome** tinting system

### PRODUCT DATA

<b>Volume Solids</b>	80%
<b>Theoretical Coverage</b>	11 Square meters / Litre @ 75 Microns DFT
<b>Finish</b>	Pigmented & Coloured
<b>Colour</b>	Extensive range using <b>LiquiChrome</b> tinting system
<b>Gloss</b>	Gloss
<b>Mixing Ratio</b>	2:1 by volume
<b>Potlife</b>	45 Min @ 25°C
<b>Typical Thickness</b>	50 - 100 Microns Dry or 63 - 125 Microns Wet
<b>Thinner</b>	Thinner LM5 Slow (Retarder thinner)
<b>Cleaner</b>	Thinner LM1
<b>Flash Point</b>	27°C
<b>VOC</b>	183 - 202 Grams/Litre (depending on colour)
<b>Specific Gravity</b>	1.44

### CURE & RECOAT

Substrate Temp	Touch Dry	Hard Dry	Full Cure Note 1	Minimum Self Recoat Time	Maximum Self Recoat Time Note 2
10°C	10 Hrs	20 Hrs	12 Days	20 Hrs	20 Hrs
15°C	6 Hrs	14 Hrs	6 Days	14 Hrs	14 Hrs
25°C	3 Hrs	7 Hrs	3 Days	7 Hrs	7 Hrs
40°C	1 Hr	2 Hrs	1 Day	2 Hrs	2 Hrs

Note 1: Minimum cure time for light foot traffic is 12 hours, vehicular traffic 24 hours

Note 2: If the maximum recoat time is exceeded the coating must be sanded before applying the next coat

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## CHEMICAL RESISTANCE

Chemical	Effect (24 Hours wet exposure)	Recovery (24 Hours after cleaning)
Petrol	Softened	Recovered
Motor Oil	No effect	
Hydraulic Oil	Slight Softening	Recovered
Car Cleaner	No effect	
Kerosine	Softened	Recovered
Methylated Spirits	Softened	Recovered, gloss loss

## POTLIFE

Mixed Product Temperature	Potlife
10°C	120 min
15°C	90 min
25°C	45 min
40°C	15 min

## LIMITATIONS

- Pot life is dependent on mix volume, temperature, and humidity
- Thin-film dry times are dependent on temperature, humidity and film thickness
- Thicker films will take longer to cure through
- Maximum self-recoat time without sanding is 7 Hours at 25°C
- Maximum recoat time without sanding over Aralox – FL150 is 12 Hours at 25°C
- Higher cure temperatures and direct exposure to the sun will shorten the recoat times

## SURFACE REP

### Steel

1. Remove all rust, mill scale, oil and any previously applied coatings back to bare clean steel using abrasive blast. Welds should have slag and spatter fully removed
2. Abrasive blast to Sa2½ (ISO 8501-1:2007) or SSPC-SP10. A sharp, angular surface profile of 40-60 microns is recommended

### Concrete

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 “Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method” can be used to confirm the moisture content.

1. 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 by ensuring that the water and air used in the decontamination of the concrete are clean.
2. Fill bug holes with PU sealant, Aralox FL150 mixed with Patchfill or other approved filler material.
3. Restore exposed aggregate surfaces back to the original profile by rendering with a mixture of Aralox – FL150 and Renderfill (a proprietary blend of clean, dry sand)

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## Concrete

Continued:

4. Remove high spots and protrusions, radius sharp edges and corners. Cove internal 90 degree angles with 45 degree, 20mm flat chamfer
5. Prepare the concrete surface in accordance with SSPC-SP13/NACE 6. Smooth, shiny concrete must be roughened to a profile similar to 80 grit sandpaper or CSP 2 - 5 or as documented in the coating system specification. Surface preparation methods employed can be vapour abrasive blasting, dry abrasive blasting, hydro blasting, mechanical scabbling or diamond grinding. Acid etching is not an acceptable surface preparation method

## APPLICATION

### Equipment

Roller:	Suitable for large and small areas, some thinning may be required
Conventional Spray:	Suitable, some thinning may be required
Airless Spray:	Suitable, Tip Range 0.28-0.53 mm (11-21 thou) Output fluid pressure at spray tip not less than 142 kg/cm <sup>2</sup> (2000Psi)

### 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

### Mixing

Always stir Opalon – S30 Part A thoroughly using a powered agitator in its original container before use.

Mechanically mix (by volume) 2 Parts of Opalon – S30 Part A with 1 Part of Opalon – S30 Part B hardener (2:1). Do not vary from this ratio. Do not attempt to part mix and make up the entire mix. Avoid entrapping air during mixing

### Thinning

LM1 Thinner may be used to thin Opalon – S30. Thinning of Opalon – S30 is not normally necessary. Depending on the application equipment and finish desired, LM1 Thinner may be added to a maximum of 10% of mixed Part A and Part B

LM5 Thinner Slow may be used to improve brushing and rolling properties of Opalon – S30. This retarder thinner further improves the application of Opalon – S30 in windy and warm conditions. A maximum of 15% of LM5 Thinner can be added to mixed Part A and Part B

### Cleanup

LM1 Thinner may be used for general clean-up of equipment

### Concrete

Apply one coat of Aralox – FL150 to seal the concrete. For best results apply Aralox – FL150 in the evening when the concrete is cooling down and not outgassing. The topcoat can be applied as soon as the Aralox – FL150 is tacked or the following morning when the Aralox – FL150 is cured. A second coat of Aralox FL150 may be required (depending on the quality and porosity of the concrete) in order to minimise pinholing in the subsequent topcoat of Opalon – S30. Avoid ponding of the Aralox – FL150 and roll out areas where there is too much sealer sitting on the concrete surface.

Then apply one coat of Opalon – S30. The maximum recoat time of Opalon – S30 over Aralox – FL150 is 12 hours at 25°C. Aralox – FL150 must be sanded if the maximum recoat time is exceeded. Do not vary the application method as this may lead to a variation in gloss level and colour

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Steel

Contact Liquimix for an appropriate anticorrosive system

## COMPATIBILITY

### Primers

Opalon - F45 Gloss  
Aralox – FL150  
Civilox - HB200  
Metalox - GC450

### Topcoats

Opalon - S30  
Opalon - F45 Matt  
Opalon - F45 Gloss

## TYPICAL SYSTEMS

Substrate	Environment	Substrate Prep	Coat	System	DFT
Concrete	Floor Interior	Abrasive Blast	1 <sup>st</sup> Coat	Aralox - FL150	200µ
			2 <sup>nd</sup> Coat	Opalon – S30	100µ
Steel	Exterior	Abrasive Blast	1 <sup>st</sup> Coat	Metalox - GC450	250µ
			2 <sup>nd</sup> Coat	Opalon – S30	75µ
Concrete	Exterior	Abrasive Blast	1 <sup>st</sup> Coat	Aralox - FL150	200µ
			2 <sup>nd</sup> Coat	Metalox – GC450	125µ
			3 <sup>rd</sup> Coat	Opalon - S30	75µ

## STORAGE & HANDLING

Store in dry, shaded conditions away from sources of heat and ignition and in properly sealed containers. Protect from heat and frost. Protect contents from moisture.

A shelf life of 12 months minimum is typical with unopened containers if stored at ambient conditions at 25°C

If either component is opened and partially used, it should be purged with nitrogen or desiccated air and resealed

## PACK SIZE

### 12L Kits

8L of Opalon – S30 Part A in a 20L Container  
4L of Opalon – S30 Part B in a 4L Container

### 1.5L Kits

1L of Opalon – S30 Part A in a 1L Container  
0.5L of Opalon – S30 Part B in a 0.5L Container

### 3L Kits

2L of Opalon – S30 Part A in a 2L Container  
1L of Opalon – S30 Part B in a 1L Container

## HEALTH & SAFETY

Opalon – S30 is for professional use only. Opalon – S30 is flammable.

This product should not be used without consulting the Safety Datasheet (SDS) as published on the Liquimix website first.

Observe all health and safety as well as environmental legislation

## DISCLAIMER

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