

# Technical Data Sheet



## Opalon-W90

### POLYASPARTIC ELASTOMERIC COATING

Two-component, 90% solids clear topcoat that will not yellow is tough, fast-curing and trafficable.

#### DESCRIPTION

A two-part, 1:1 mix, 100% solids, elastomeric polyaspartic that is colour-fast, tough, fast-curing and trafficable. It can be used either on its own or with Aralox or Civilox epoxy primers to produce beautiful, durable floors in either granite finish or solid colours. When used as a topcoat over Tufflon or Elaston series of pure polyurea, it forms part of the Elastopave, trafficable waterproofing and protective coating system. It can also be used in swimming pools. With good pot-life, fast return to service, high-tensile strength and puncture resistance, it bridges hairline cracks and absorbs subtle movement in the substrate. It is available in a range of UV stable colours suitable for most applications.

#### ADVANTAGES / FEATURES

- Excellent UV resistance - non yellowing (However Opalon will not prevent yellowing of non-colourfast products such as primers and epoxies underneath).
- High resistance to chlorine and other chemicals
- Fast cure - rapid return to service
- Excellent gloss retention
- High adhesion to well-prepared substrates

#### APPLICATIONS

- Garage floors

- Can be used in permanent immersion

#### COLOUR

Available in most standard translucent and opaque colours.

#### FINISH

Gloss or optional finish with increased surface friction.

#### PRIMERS

Self-priming for fast application or apply over Aralox epoxy primer to reduce system cost and increase adhesion to poorly prepared and difficult substrates.

#### LIMITATIONS

- Gel time and thin-film dry times are heavily dependent on temperature, humidity and film thickness.
- Thicker films will take longer to cure through. 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 product underneath. The only way to ensure colour-fastness of product underneath is to use a coloured Opalon.

<b>TYPICAL LIQUID PROPERTIES</b>		
<b>Property</b>	<b>Part A</b>	<b>Part B</b>
Viscosity @ 25°C, [CPs]	1,800	115
Mixed [A+B] Viscosity [CPs]	N/A	
Specific Gravity @ 25°C	N/A	N/A
Solids Content, [wt %]	N/A	N/A
Mixed [A+B] Solids Content [wt%]	90%	
Mix ratio - Parts by volume	1	1

<b>TYPICAL CURED PROPERTIES</b>		
<b>Property</b>	<b>Test method</b>	<b>Results</b>
Mix Ratio	By volume	1:1
Hardness	Shore D	N/A
Hardness	Shore A	90
Elongation at 24°C	ASTM D412 06ae2	>30%
Abrasion resistance		N/A
Solids	A and B mixed	90%
Theoretical coverage		N/A

<b>PROCESSING EQUIPMENT</b>	
Roll-on or brush application	Paint roller or brush
Spray equipment	Airless Graco Equipment

<b>CURING SCHEDULE</b>
Note: Cure time depends greatly on the temperature and conditions. Be sure to mix up a small amount first to test the pot life and gel time if unsure.

Gel time	45 minutes
Touch dry	1 hour
Hard through	3.5 hours
Walk on (carefully)	2 hours
Cure time (95%)	24 hours
Full cure (and full physical properties)	48 hours

<b>RECOAT SCHEDULE FOR THE FOLLOWING SYSTEMS @ 25°C</b>	<b>RECOAT WINDOW</b>
Civilox recoat with Civilox	2.5 hrs - 3 weeks
Civilox overcoat with Opalon, Tufflon or Elaston	2.5 hrs - 7 days
Aralox recoat with Aralox	4 hrs - 2 weeks
Aralox overcoat with Opalon, Tufflon or Elaston	4 hrs - 72 hrs
Opalon overcoat with Opalon	1 hr - 4 hrs
Tufflon or Elaston overcoat with Opalon	20 min - 60 min

## **APPLICATION GUIDELINES**

The following details provide general procedures to be followed for most applications of OPALON-W90. Correct substrate preparation is vital for a successful outcome. After standard preparation of steel or concrete, joints, corners and other surfaces, the following procedures should be followed.

### **DECORATIVE CONCRETE FLOOR COATINGS**

CONCRETE - SOLID COLOUR - Apply OPALON-W90 directly to the concrete (two coats may be required if the concrete is "hungry"). If the concrete is damp, oily or poorly prepared, prime with Civilox-11 epoxy before overcoating with OPALON-W90.

CONCRETE - CHIP or GRANITE LOOK - Follow above procedure and then broadcast decorative chips onto the final wet coat of OPALON-W90. When dry, remove excess chips with vacuum, blower or broom prior to application of OPALON-W90 Clear Topcoat. For a smooth finish, sand the chips prior to application of the clear OPALON-W90 topcoat.

ELASTOPAVE - TRAFFICABLE WATERPROOFING SYSTEM This system is used where a trafficable, elastomeric, decorative, colour-fast, waterproofing system is required for decks, car parks and other areas. Following correct preparation of the concrete to industry standards, apply TWO PRIMER COATS of Civilox-18 epoxy followed by an INTERMEDIATE coat of Tufflon-P90 polyurea to 3mm DFT and a FINAL TOP COAT of OPALON-W90 (pigmented) at 0.5mm DFT. This tough, elastomeric, waterproof and trafficable system withstands pedestrian and vehicle traffic and bridges hairline cracks in the substrate.

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 coats. (see Recoat Schedule in table below)

## RECOAT PROCEDURES

RECOAT SCHEDULE FOR THE FOLLOWING SYSTEMS @ 25°C	RECOAT WINDOW
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## TEST BEFORE USE

The procedures outlined in this Technical Data Sheet are not intended as specific application instructions. The amount used and final appearance will depend on the specific project undertaken and the experience of the applicator having used this product previously. Correct surface preparation, job-site conditions and adequate safety precautions are the responsibility of the coatings contractor. Test the product on a small area of the main job first before going ahead. Ensure that the quantities being mixed and used are not too much for the temperature and humidity of the day

## STORAGE AND HANDLING

Storage Conditions Keep containers well sealed. Part B is reactive to moisture. Refer to the SDS (Safety Data Sheet) for OPALON-W90 and follow all precautionary instructions.

## HEALTH AND SAFETY ADVICE

Do not breathe dust / fumes / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Avoid release into the environment. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse.

Specific treatment (see advice on label and Safety Data Sheet). If on skin: wash with plenty of soap and water. If in eyes: rinse cautiously with water for several minutes. Remove contact lense if present and easy to do so. Continue rinsing. Call a poison center or doctor if you feel unwell. If skin irritation or rash occurs get medical advice/attention. If eye irritation persists get medical advice/attention. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Always collect all spillage. Refer to LiquiMix Safety Data Sheets for individual products.

## Important Notice

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