OPTUS
RESIN TECHNOLOGY

OPTICOTE SUPERDUR 80

Opticote Superdur is a fast curing, solvented polyurea coatings with good adhesion to concrete, steel and wood. They are colour stable, UV stable and low odour until cured. Opticote Superdur 80 can be applied in temperatures ranging from -20°F to 100°F. When fully cured it provides a wear resistant high gloss solution. If required fine aluminum oxide can be added to achieve the desired level of anti-slip.

Benefits

- VOC Compliant (USA)
- Abrasion resistant
- Chemical resistant
- Hygienic
- Easy to apply, using brush or roller
- Fast cure: reduced downtime
- Excellent UV stability: colours stay bright
- Cures from low temperature: excellent for chilled storage
- High tyre stain resistance—dirt shedding: lines stay visible
- Good colour range: white, yellow, red, green, blue and clear - others on request

Areas of Use

Opticote Superdur 80 is ideally suited to high stress situations where durability (especially onto concrete) and colour stability are particularly important. Its impressive chemical resistance, along with the ability to be applied and maintained sub-zero, the following will all benefit:

- Food Processing Areas
- Chemical Plants
- Chilled Distribution
- Manufacturing Plants
- 24-hour Distribution Centers

In addition to internal applications Opticote Superdur 80 can be used externally in a multitude of situations and can be combined with high friction grit to achieve a durable anti-slip surface.

Technical Information

Tensile Strength	25 N/mm²
Elongation	30%
Hardness	Shore D = 73 / A=99
Flash Point	>93 °C (199.4 °F)
% Solids (Weight)	80%
VOC Content	0
Viscosity Pack A	Free Flowing Liquid
Viscosity Pack B	Free Flowing Liquid

Coverage

41.5 kg (10 m² -32 m² per kg)

10 Gallons (100 sqft. - 350 sqft. per gallon)

Uneven substrates will give reduced coverage.

Pot Life

20 min @ 20°C (68°F)

Shelf Life

9 months unopened in factory conditions
(Keep away from extreme heat, freezing, and moisture)

Storage

Recommended temperature range for storage, transport and application is: 5°C and 28°C (41°F - 82°F).

Chemical Resistance (24 hr. Immersion)

Liquid Spillage	Result (25°C / 77°F)		
Acetic Acid (100%)		C	
Acetone			NR
Ammonium Hydroxide	R		
Anti-Freeze/Water (50:50)	RC		
Battery Acid (Sulphuric Acid)	RD		
Brine-Saturated (310g/l)	R		
Citric Acid	RC		
Copper Chromate Arsenic (4%)	R		
Diesel Fuel	R		
Petrol	R		
MEK			NR
Methanol		C	
Methylene Chloride			NR
Mineral Spirits	R		
Motor Oil	R		
NaCl/Water (10%)	R		
Phosphoric Acid (10%)	R		
Potassium Hydroxide (10%)	R		
Potassium Hydroxide (20%)	R, Dis		
Skydrol®	RD		
Sodium Hydroxide (50%)	R		
Sodium Hypochlorite (10%)	RC		
Sodium Bicarbonate	R		
Sugar/Water (10%)	R		
Sulphuric Acid (50%)			NR
Toluene	RC		
Vinegar (5%) Water		C	
Water	R		
Water (82oC) 14 Day	RC		
Xylene	RC		

R = Recommended (little or no visible damage)
RC = Recommended Conditional (Some effect - swelling, discolouration, etc.)
C = Conditional Cracking - Wash down within 1 hour of spillage to avoid effects.
NR = Not Recommended
Dis = Discolouration Only

Cleaning

Acetone should be used for cleaning tools, etc.

Health & Safety

Gloves, overalls and barrier cream should be used when working with Opticote Superdur 80. For full details please refer to the appropriate Health and Safety Data Sheet.

Surface Preparation

Concrete – All surface contaminants should be removed and the surface abraded by mechanical means to remove surface laitance. On a high strength power floated concrete floor it is important to provide a mechanical key. Any greasy stains or deposits must be removed prior to application.

A primer may be required depending on the type and density of the concrete – refer to Optus Resin.

New unmodified OPC concrete should be allowed to cure for between 30 and 60 days depending on the residual moisture content of the concrete unless using approved moisture barrier.

Steel – The steel must be prepared to SA 2½ (a 50 micron profile is generally acceptable). Blow off dust before applying the Opticote Superdur 80. Solvent wipe to clean any grease or dirt if necessary.

Existing Coatings – Previously painted surfaces should be thoroughly abraded by sanding to improve adhesion and to remove any weak or loose material. A trial area is advisable to test compatibility with previous coatings.

Substrate Repairs – All cracks, potholes, spalls, etc. should be repaired.

Application

PACK A - Hardener PACK B - Resin

Thoroughly mix the Pigmented B component prior to use using a drill and paddle for one minute or until consistent colour is achieved. Mix components A and B for 60 seconds. Use a squeegee and back roll with **short haired 3/8" roller** for best results. On dense concrete roll vigorously into the surface for maximum penetration. Multiple coats should be applied without delay following initial cure (varies with grade of product used). Mechanical abrasion will be necessary if there is a delay in application.

For added slip resistance white Aluminum oxide can be scattered over the surface and back-rolled to coat with the Opticote Superdur product.

NOTE: HAND APPLICATION ONLY