

# **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/mm<sup>2</sup> Elongation 30%

Hardness Shore D = 73 / A=99Flash 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 m<sup>2</sup> -32 m<sup>2</sup> 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).

Acetic Acid (100%) Acetone Acetone Acetone Anmonium Hydroxide Anti-Freeze/Water (50:50) Battery Acid (Sulphuric Acid) Brine-Saturated (310g/l) Citric Acid RC Copper Chromate Arsenic (4%) RPetrol RPetrol RPetrol RMEK NR Methanol CC Methylene Chloride Mineral Spirits R Motor Oil R Potassium Hydroxide (10%) R Potassium Hydroxide (10%) R Potassium Hydroxide (50%) R Sodium Hydroxide (50%) R Sodium Hydroxide (10%) R Sodium Hydroxide (50%) R Sodium Hydroxide (10%) R Solium Bicarbonate R Sugar/Water (10%) R R C Water R Water R Water (82oC) 14 Day R R R R R R R R R R R R R R R R R R R	Chemical Resistance (24 hr. Immersion)				
Acetone RAmmonium Hydroxide R RAnti-Freeze/Water (50:50) RC Battery Acid (Sulphuric Acid) RD Brine-Saturated (310g/l) R R CC Copper Chromate Arsenic (4%) R R Diesel Fuel R Petrol R R Petrol R R MEK NR Methanol C Methylene Chloride NR Motor Oil R R NACI/Water (10%) R R Potassium Hydroxide (10%) R R Potassium Hydroxide (20%) R R Potassium Hydroxide (50%) R R Sodium Hydroxide (50%) R R Sodium Hydroxide (10%) R R Sodium Hydroxide (50%) R R Sodium Hydroxide (50%) R R Sodium Bicarbonate R Sugar/Water (10%) R C Sodium Bicarbonate R R Sugar/Water (10%) R C C C Water R C Water R R Water (82oC) 14 Day RC	Liquid Spillage	Result (25°C / 77°F)			
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 NACI/Water (10%) R Potassium Hydroxide (10%) R Potassium Hydroxide (20%) R, Dis Skydrol® RD Sodium Hydroxide (50%) R Sodium Bicarbonate R Sugar/Water (10%) R Sulphuric Acid (50%) NR Toluene RC Water (82oC) 14 Day RC	Acetic Acid (100%)		С		
Anti-Freeze/Water (50:50) RC  Battery Acid (Sulphuric Acid) RD  Brine-Saturated (310g/I) R  Citric Acid RC  Copper Chromate Arsenic (4%) R  Diesel Fuel R  Petrol R  MEK NR  Methanol C  Methylene Chloride NR  Motor Oil R  NaCl/Water (10%) R  Potassium Hydroxide (10%) R  Potassium Hydroxide (20%) R, Dis  Skydrol® RD  Sodium Hydroxide (50%) R  Sodium Bicarbonate R  Sugar/Water (10%) R  Sulphuric Acid (50%) NR  Toluene RC  Water (82oC) 14 Day RC	Acetone			NR	
Battery Acid (Sulphuric Acid) Brine-Saturated (310g/I) R Citric Acid RC Copper Chromate Arsenic (4%) Diesel Fuel R Petrol R MEK Methanol C Methylene Chloride Mineral Spirits R Motor Oil R NaCl/Water (10%) R Potassium Hydroxide (10%) R Potassium Hydroxide (20%) Skydrol® Sodium Hypochlorite (10%) R Sodium Hypochlorite (10%) R Sulphuric Acid (50%) R Sulphuric Acid (50%) R R C Water R Water R Water (82oC) 14 Day R R R R R R R R R R R R R R R R R R R	Ammonium Hydroxide	R			
Brine-Saturated (310g/I) Citric Acid Copper Chromate Arsenic (4%) Diesel Fuel R Petrol R MEK MEK Methanol C Methylene Chloride Mineral Spirits R Motor Oil R NaCl/Water (10%) R Potassium Hydroxide (10%) R Potassium Hydroxide (20%) Skydrol® Sodium Hydroxide (50%) R Sodium Hydroxide (10%) R Sodium Bicarbonate R Sugar/Water (10%) R R Sulphuric Acid (50%) Toluene R Water (82oC) 14 Day R R R R R R R R R R R R R R R R R R R	Anti-Freeze/Water (50:50)	RC			
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 Potassium Hydroxide (10%) R Potassium Hydroxide (20%) R, Dis Skydrol® RD Sodium Hydroxide (50%) R Sodium Hydroxide (10%) RC Sodium Bicarbonate R Sugar/Water (10%) R Sulphuric Acid (50%) R Sulphuric Acid (50%) R C Water R Water (82oC) 14 Day RC	Battery Acid (Sulphuric Acid)	RD			
Copper Chromate Arsenic (4%) Diesel Fuel R Petrol R Petrol R MEK Methanol C Methylene Chloride Mineral Spirits R Motor Oil R NaCl/Water (10%) R Potassium Hydroxide (10%) R Potassium Hydroxide (20%) R Sodium Hydroxide (50%) R Sodium Hydroxide (10%) R Sodium Bicarbonate R Sugar/Water (10%) R Sulphuric Acid (50%) R R Sulphuric Acid (50%) R R C Water R Water (82oC) 14 Day R R R R R R R R R R R R R R R R R R R	Brine-Saturated (310g/I)	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%) R Toluene RC Water R Water (82oC) 14 Day RC	Citric Acid	RC			
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, Dis  Skydrol® RD  Sodium Hydroxide (50%) R  Sodium Hypochlorite (10%) RC  Sodium Bicarbonate R  Sugar/Water (10%) R  Sulphuric Acid (50%) R  Toluene RC  Water R  Water (82oC) 14 Day RC	Copper Chromate Arsenic (4%)	R			
MEK  Methanol  C  Methylene Chloride  Mineral Spirits  R  Motor Oil  R  NaCl/Water (10%)  R  Phosphoric Acid (10%)  R  Potassium Hydroxide (10%)  R  Potassium Hydroxide (20%)  Skydrol®  Sodium Hydroxide (50%)  R  Sodium Hypochlorite (10%)  RC  Sodium Bicarbonate  R  Sugar/Water (10%)  RC  Vinegar (5%) Water  C  Water  Water (82oC) 14 Day  R  R  R  R  R  R  R  R  R  R  R  R  R	Diesel Fuel	R			
Methanol C  Methylene Chloride NR  Mineral Spirits R  Motor Oil R  NaCl/Water (10%) R  Phosphoric Acid (10%) R  Potassium Hydroxide (10%) 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  Water R  Water (82oC) 14 Day RC	Petrol	R			
Methylene Chloride  Mineral Spirits  R  Motor Oil  R  NaCl/Water (10%)  R  Phosphoric Acid (10%)  R  Potassium Hydroxide (10%)  R, Dis  Skydrol®  Sodium Hydroxide (50%)  Sodium Hypochlorite (10%)  Sodium Bicarbonate  R  Sugar/Water (10%)  R  Sulphuric Acid (50%)  Toluene  Water  Water  Water (82oC) 14 Day  R  R  R  R  R  R  R  R  R  R  R  R  R	MEK			NR	
Mineral Spirits  Motor Oil  R  NaCl/Water (10%)  R  Phosphoric Acid (10%)  R  Potassium Hydroxide (10%)  R  Potassium Hydroxide (20%)  Skydrol®  Sodium Hydroxide (50%)  R  Sodium Hypochlorite (10%)  RC  Sodium Bicarbonate  R  Sugar/Water (10%)  RC  Vinegar (5%) Water  Water  Water (82oC) 14 Day  R  R  R  R  R  R  R  R  R  R  R  R  R	Methanol		С		
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%) R Sulphu	Methylene Chloride			NR	
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%) R R R Water (82oC) 14 Day R R R R R R R R R R R R R R R R R R R	Mineral Spirits	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%) R Sulphuric Acid (50%) R Toluene RC Water R Water (82oC) 14 Day RC	Motor Oil	R			
Potassium Hydroxide (10%)  R Potassium Hydroxide (20%)  R, Dis  Skydrol®  RD  Sodium Hydroxide (50%)  RC  Sodium Hypochlorite (10%)  RC  Sodium Bicarbonate  R  Sugar/Water (10%)  RC  NR  Vinegar (5%) Water  C  Water  Water (82oC) 14 Day  R  R  R  R  R  R  R  R  R  R  R  R  R	NaCl/Water (10%)	R			
Potassium Hydroxide (20%)  R, Dis  RD  Sodium Hydroxide (50%)  RC  Sodium Hypochlorite (10%)  Sodium Bicarbonate  R  Sugar/Water (10%)  RC  Sulphuric Acid (50%)  RO  NR  Vinegar (5%) Water  C  Water  R  Water (82oC) 14 Day  RD  RD  RC  RD  RC  RC  RC  RC  RC	Phosphoric Acid (10%)	R			
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	Potassium Hydroxide (10%)	R			
Sodium Hydroxide (50%)  Sodium Hypochlorite (10%)  Sodium Bicarbonate  R  Sugar/Water (10%)  R  Sulphuric Acid (50%)  Toluene  RC  Vinegar (5%) Water  C  Water  R  Water (82oC) 14 Day  RC	Potassium Hydroxide (20%)	R, Dis			
Sodium Hypochlorite (10%)  Sodium Bicarbonate  R  Sugar/Water (10%)  R  Sulphuric Acid (50%)  Toluene  RC  Vinegar (5%) Water  C  Water  R  Water (82oC) 14 Day  RC	Skydrol®	RD			
Sodium Bicarbonate R Sugar/Water (10%) R Sulphuric Acid (50%) NR Toluene RC Vinegar (5%) Water C Water R Water (82oC) 14 Day RC	Sodium Hydroxide (50%)	R			
Sugar/Water (10%)  Sulphuric Acid (50%)  Toluene  RC  Vinegar (5%) Water  C  Water  R  Water (82oC) 14 Day  R	Sodium Hypochlorite (10%)	RC			
Sulphuric Acid (50%)  Toluene  RC  Vinegar (5%) Water  C  Water  R  Water (82oC) 14 Day  RC	Sodium Bicarbonate	R			
Toluene RC Vinegar (5%) Water C Water R Water (82oC) 14 Day RC	Sugar/Water (10%)	R			
Vinegar (5%) Water         C           Water         R           Water (82oC) 14 Day         RC	Sulphuric Acid (50%)			NR	
Water R Water (82oC) 14 Day RC	Toluene	RC			
Water (82oC) 14 Day	Vinegar (5%) Water		С		
·	Water	R			
Xylene RC	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

The information given in this product, technical and application data sheet is given in good faith, based on current knowledge and experience but we have no control over the quality or the conditions of the substrate or the many differing factors affecting the use and application of the product. It relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of the company's knowledge and belief, accurate as of the date indicated. It is the user's responsibility to satisfy themselves as to the suitability and application of such information for their own use.

