DURELINE™ SE10

Solventless Very High-Build General Purpose Epoxy — PC 910

FEATURES
- SOLVENTLESS EPOXY
- 100% VOLUME SOLIDS
- VERY HIGH BUILD – SINGLE COAT APPLICATION UP TO 1,000 MICRONS
- EPOXY TANK LINING
- POTABLE WATER APPROVED
- CONTINUES TO CURE UNDERWATER – EARLY IMMERSION IN SALT AND FRESHWATER

USES Dureline™ SE10 is intended for use on steel and concrete substrates as a general-purpose tank lining, including potable water storage. It can also be used in applications requiring a high-build epoxy.

SPECIFICATIONS AS/NZS 4020:2018 compliant for use in potable water when used in conjunction with a certified coating system. Contact your Dulux® Protective Coatings Consultant for specific coating system recommendation.

RESISTANCE GUIDE

WEATHERABILITY	Will yellow with time and chalk on exterior UV exposure. Use a sacrificial, weatherable topcoat if required to maintain appearance in secondary containment.	**SOLVENTS**	Very good resistance to splashes, and spillages of aromatic and aliphatic hydrocarbons, and refined petroleum products.
HEAT RESISTANCE	Up to 120°C dry heat.	**WATER**	Excellent resistance to immersion potable water.
SALTS	Very good resistance to splashes, and spillages of neutral and alkaline salt solutions.	**ALKALIS**	Very good resistance to splash and spillage of most common alkalis.
ACIDS	Good resistance to splash and spillage of weak solutions of inorganic acids.	**ABRASION**	Very good when fully cured.

For immersion use, refer to your Dulux® Protective Coatings Consultant for specific recommendation.

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Solventless tank lining epoxy
FINISH	Gloss
COLOUR	Grey and Off-White.
COMPONENTS	Two
VOLUME SOLIDS	100% (Grey and off-white)
VOC LEVEL	<10 g/L (Grey and off-white)
FLASH POINT	Above 65°C
POT LIFE	40 Min (18 litre kit, 25°C)
SPRAY LIFE	35 Min (18 liter kit, 25°C)
MIXING RATIO V/V	Part A : 2 Part B : 1
THINNER	DO NOT THIN
CLEAN UP	920-08925 Dulux® Epoxy Thinner
	965-63020 Dulux® CR Reducer
PRODUCT CODE	759-81469 Off-white 759-84467 Grey
	980-84530 Standard Hardener

APPLICATION CONDITIONS

	Min	Max
Air Temp.	10°C	40°C
Substrate Temp.	10°C	40°C
Relative Humidity		85%
Concrete Moisture		<6%

COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	250	1,000	500
Dry film per coat (µm)	250	1,000	500

SUITABLE SUBSTRATES	Suitably prepared substrates including blast-cleaned steel and concrete.
PRIMERS	Not required or a specified Dulux® primer including Luxepoxy® 4 White Primer
TOPCOATS	Not applicable.
APPLICATION METHODS	Single and plural component airless spray

DRYING CHARACTERISTICS AT 500 µm DRY FILM THICKNESS

					OVERCOAT		RETURN TO SERIVCE[2]
Temperature	**Humidity**	**Touch**	**Handle**	**Full Cure**	**Min**	**Max[1]**	
10° C	50%	10 Hours	33 Hours	7 Days	33 Hours	4 Weeks	11 Days
15° C	50%	7 Hours	24 Hours	7 Days	24 Hours	4 Weeks	7 Days
25° C	50%	4 Hours	13 Hours	7 Days	13 Hours	4 Weeks	4 Days

*These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.

[1] **If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.**

[2] The return to service times refers to the minimum time at the specified substrate temperature before immersion in any chemicals. This does not account for any curing requirements for third party approvals, such potable water applications. The coating MUST meet the minimum Return to Service time stated within the technical datasheet. Prior to being placed under immersion conditions 100% holiday detection and remediation of any spots found are recommended.

SPREADING RATE ASSUMING NO LOSSES

2 square metres per litre equals 500 µm dry film thickness

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.

DURELINE® SE10

TYPICAL SYSTEMS

This is a guide only and not to be used as a specification. Your specific project needs must be discussed with a Dulux® Protective Coatings Consultant.

SURFACE	ENVIRONMENT	PREPARATION GUIDE	SYSTEM		DFT (µm)
STEEL	Immersion	Abrasive blast clean AS1627.4 Class 3.0	1st Coat	Dureline™ SE10	500 µm
STEEL	Immersion	Abrasive blast clean AS1627.4 Class 3.0	1st Coat 2nd Coat	Dureline™ SE10 Dureline™ SE10	500 µm 500 µm
CONCRETE	Interior	Remove release agents and other surface contaminants/ Dry abrasive blast cleaning to SSPCSP 13/NACE No. 6. to a CSP 4/5 per ICRI Guideline No. 310.2R. Fill voids, bugholes, honeycombs, etc using an appropriate Fosroc filler/surfacer such as Nitomortar AP.	1st Coat	Dureline™ SE10	500 µm
CONCRETE	Interior	Remove release agents and other surface contaminants/ Dry abrasive blast cleaning to SSPCSP 13/NACE No. 6. to a CSP 4/5 per ICRI Guideline No. 310.2R. Fill voids, bugholes, honeycombs, etc using an appropriate Fosroc filler/surfacer such as Nitomortar AP.	1st Coat 2nd Coat 3rd Coat	Luxepoxy® 4 White Primer Dureline™ SE10 Dureline™ SE10	50µm 250 µm 250 µm

SURFACE PREPARATION

Steel: Round off all rough welds, sharp edges and remove weld spatter. Degrease in accordance with AS1627.1. Abrasive blast clean to a minimum of AS1627.4 Class 2.5 using ISO8501-1 as a pictorial guide.

Concrete: Concrete must be at least 28 days old before coating. Remove all laitance, form release agents, curing compounds, oil, grease and other surface contaminants. Prepare concrete surfaces per NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide a minimum of CSP 4/5 as per ICRI Guideline No. 310.2R. Cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer such as Fosroc Nitomortar AP or Nitomortar 903. Fill all cracks, bug holes and/or voids using Dulux Luxepoxy® Filler as appropriate.

*Allow new concrete to cure a minimum of 28 days at 24°C. To minimise the risk of moisture interference, Dulux recommends the following two tests be performed before coating – ASTM F2659 – 10 “Standard Guide for Preliminary Evaluation of Comparative Moisture Condition of Concrete, Gypsum Cement and Other Floor Slabs and Screeds Using a Non-Destructive Electronic Moisture Meter” (moisture content not to exceed 6%) and ASTM D 4263 “Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method” (no visible moisture present). If there is any concern about moisture problems with the concrete slab, or for projects greater than 500m^2, at least one of the following more accurate quantitative test methods should be used - ASTM F 1869 “Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride” (moisture vapour transmission should not exceed 1.4 kilograms (3 pounds) per 93 square metres (1,000 square feet) in 24 hours), ASTM F 2170 “Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes” (as referred to in AS 1884-2012, relative humidity should be less than 75%) Note: The testing listed above cannot guarantee avoidance of future moisture related problems, particularly with existing concrete slabs. This is especially true if an under-slab moisture vapour barrier cannot be confirmed or concrete contamination from oils, chemical spills, unreacted silicates, chlorides or Alkali-Silica Reaction (ASR) is suspected.

APPLICATION

Plural-component and single-leg airless equipment only. Brush or roller application only suitable for limited touch-up or repairs of small areas.
Please refer to the Dureline® SE-10 Application Guide for recommendations. For any questions after reviewing the guide, please contact Dulux® Protective Coatings Technical Service.

PRECAUTIONS

This is an industrial product designed for use by experienced Protective Coating applicators. Where conditions may require variation from the recommendations on this Technical Data Sheet contact your nearest Dulux® Protective Coatings Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the express written consent of Dulux® Protective Coatings Australia. Freshly mixed material must not be added to material that has been mixed for some time. The rate of cure is dependent upon temperature. Do not apply at temperatures below 10°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Concrete tanks will need to be emptied in advance of coating application to allow the moisture content of the concrete to fall to allowable levels – please see Surface Preparation area of this product data sheet for specifics. After the coating has cured, check for defects in the coating in accordance with AS 3891.4 or AMPP SP0188, and repair. Do not apply over water proofing compound as treatments of concrete surfaces, such as curing compounds, sealers, moisture barriers, pore fillers and waterproofing treatments will likely compromise coating adhesion. The coating MUST be fully cured prior to being placed under immersion conditions.
DO NOT THIN.

CLEAN UP

Clean all equipment with Dulux® Epoxy Thinner (920-08925) or Dulux® CR Reducer (965-63020) immediately after use.

SAFETY PRECAUTIONS

Read the Technical Data Sheet, Safety Data Sheet, Application Guide, any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au

STORAGE

Store in well-ventilated bunded area undercover, and away from source of heat. Keep containers closed at all times.

HANDLING

As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.

USING	Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear a combined organic vapour/particulate respirator. When spraying, users must comply with their respective State Spray Painting Regulations.
FLAMMABILITY	This product is not flammable. On burning will emit toxic fumes.
WELDING	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

COMPANY INFORMATION

Dulux® Protective Coatings is a division of:

DuluxGroup (Australia) Pty Ltd
1956 Dandenong Road, Clayton 3168
A.B.N. 67 000 049 427

DuluxGroup (New Zealand) Pty Ltd
150 Hutt Park Road, Lower Hutt, NZ
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PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 18 litre packs
TRANSPORTATION WEIGHT	1.54 kg/litre (Average of components)
DANGEROUS GOODS	Part A: Class 9, Un 3082 Part B: Class 8, Un 1760