



AUAV00090 Dulux Avista Resurfacing Base Compound with General Purpose Sealer on Aged Uncoated Substrate Concrete floors [Exterior]

Substrate and Substrate Preparation

Substrate Notes

Concrete is a mixture of Portland cement, fine and coarse mineral aggregates, water and admixtures. Concrete floor slab construction consists of concrete poured into formwork in which reinforcing steel had been laid. The formwork (usually timber) holds the slab together as the concrete cures. The concrete should be kept wet according to best practice methods to allow the cement to fully hydrate during the curing process of 4-6 weeks to allow it to reach its design strength. Methods include ponding, wet hessian, wet sand or plastic sheet. If allowed to dry out prematurely, concrete will develop laitance, a weak, friable layer on the surface.

A waterproofing membrane should be laid underneath the slab to prevent moisture from rising up from the soil through the slab and causing efflorescence. The presence of laitance or efflorescence will interfere with coating adhesion.

Substrate Preparation Notes

Assess suitability

Examine the floor for accumulated dirt, dust, oily deposits, laitance, efflorescence and other surface contaminants. Check the extent of wear, shrinkage or movement cracks, pits, mechanical damage and other imperfections.

Clean surface

Remove all surface and subsurface contamination using by a cleaning method appropriate for the contamination type encountered. For example, remove dirt, dust, grease or oils by washing with a free-rinsing, alkaline detergent such Gamlen CA 1 in strict accordance with the manufacturers written instructions and all safety warnings. Pay attention to expansion joints. Thoroughly rinse with fresh potable water to remove all detergent residues. A clean surface is indicated when the rinsing water wets out the surface instead of beading on the surface. Repeat until the surface is clean. Allow surface to dry.

Repair surface imperfections

Thoroughly and completely clean out, rout out (as required) and fill cracks, voids or other imperfections with a two-pack epoxy repair paste such as Nitomortar® AP strictly according to the technical data sheet.

Do not fill expansion joints with any rigid fillers. Leave these until after the floor is painted.

Note: Do not overcoat epoxy repair mortars with any clearcoat in areas exposed to UV; UV exposure will cause chalking of the epoxy surface and potential delamination of the coating system.

Abrade surface

Diamond grind, blast-track or mechanically abrade concrete floors in strict accordance with SSPC-SP 13/NACE No. 6 Joint Surface Preparation Standard "Surface Preparation of Concrete" to remove laitance, curing compounds, hardeners, loosely adhering concrete and/or other contaminants. The resultant surface should be a sound, uniform substrate, with a concrete surface profile in the range of CSP 2-3 as laid out in ICRI Guideline 310.2R-2013, "Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair".

Note Dulux Protective Coatings does not recommend acid etching as a form of surface preparation. Remove all dust by thorough vacuum cleaning.

Check moisture

Check moisture content of the floor prior to painting and ensure that it is no greater than 5%*.

* To minimise the risk of moisture interference, Dulux recommends the following 2 tests be conducted prior to coating; ASTM F2659-10 "Standard Guide for Preliminary Evaluation of Concrete, Gypsum Cement and other Floor Slabs and Screeds using a Non-Destructive Electronic Moisture Meter" (Moisture Content to be <5%), and ASTM D4263 "Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method" (no visible moisture present). If there is concern about moisture in the substrate, refer to Dulux Protective Coatings for further evaluation.

Note: The testing listed above cannot guarantee avoidance of future moisture related problems particularly with existing concrete slabs. This is especially true if the use of an under-slab moisture vapor barrier cannot be confirmed or concrete contamination from oils, chemical spills, unreacted silicates, chlorides or Alkali Silica Reaction (ASR) is suspected.

Coat surface

Check that the surface is clean, dust-free and defect-free prior to coating. Apply the floor coating system in strict accordance with the technical data sheets and specification without delay before the floor becomes recontaminated. Allow floor coating system to fully cure. Seal structural control or expansion joints with a flexible polyurethane sealant such as Fosroc Nitoseal® PU400 in strict accordance with the technical data sheet. Do not paint over floor joint sealant.

Additional Notes

Acid etching is also an acceptable form of reparation with the Dulux Avista Resurfacing System, on uncoated surfaces only.

- Surface should be clean & free of dust, debris & contamination prior to acid etching.

- Combine Dulux Avista Hydrochloric acid at a ratio of 1 part acid to 20 parts water for porous concrete, or 1 part acid to 10 parts water for smooth concrete.

- Apply to surface with with a broad head watering can & pressure wash off immediately. Pressure clean using a minimum of 2000 psi. Do not allow the acid to dry on the surface.



Specification



NOTE: Do not scrub acid into the surface with a broom. Using a broom to push the acid/water mixture around can cause areas to be missed or insufficiently etched.

Coating System	Summary	
• 1st Coat	Dulux Avista Resurfacing Primer	
 2nd Coat 	Dulux Avista Resurfacing Base Compound	
 3rd Coat 	Dulux Avista Resurfacing Base Compound	
• 4th Coat	Dulux Avista Concrete Sealer General Purpose Semi Gloss	
• 5th Coat	Dulux Avista Concrete Sealer General Purpose Semi Gloss	

Coating System								
1st Coat — Dulux Avista Resurfacing Primer								
Coat Type 1st Coat	Datasheet AUAV00007 Dulux	Datasheet AUAV00007 Dulux Avista Resurfacing Primer						
Read the full Datasheet details at <u>Dulu</u>	<u>x Avista Resurfacing Primer</u>							
Components 1								
Application Methods								
TRoller 1 Floor Squeegee Broom								
Mir	١	Max	Recommended					
Theoretical Spread Rate (m²/L)			10					
Meets GBCA V.O.C. Requirements? Not Applicable								
Coating Application Details Shake Avista Primer container well before opening and then dilute 1 part Primer to 3 parts water in a clean bucket (4 litres of mixed Primer will cover approximately 40m² depending on the porosity of the concrete).								
Apply the mixed primer to the surface using a soft broom, roller or sprayer. Spread evenly across the surface so primer doesn't pool as this can affect adhesion. Whilst the surface is still wet, the resurfacing coating can be applied.								
Whilst the surface is still wet, Dulux Avista Resurfacing Compound can be applied as per the instructions on the bag.								
2nd Coat — Dulux Avista Resurfacing Base Compound								
Coat Type 2nd Coat	Datasheet AUAV00006 Dulux	Datasheet AUAV00006 Dulux Avista Resurfacing Base Compound						
Read the full Datasheet details at <u>Dulux Avista Resurfacing Base Compound</u>								
Components 3								
Pot Life Yield appox. 30 minutes, depending on ambient conditions 12.5L								
Application Methods								
🚹 Floor Squeegee 🔒 Broom 🚅 Trowel 🜉 Hopper Gun								



Specification



	Min			Мах		Recommended	
Theoretical Spread Rate (m²/L)	15			30			
Recoat Time **	40]	NA			
Necoat Time	40						
V.O.C. Level 11 grams per litre					Meets GBCA V.O.C. Requirements? Not Applicable		
Coating Application Details Add required amount of clean pot with mechanical mixer at low speed Slowly add Dulux Avista Resurfacin Once full content has been added mixture.	d until mix co g Base Com	blour is uniform. Dound, mixing continua	illy.		Ū		
First coat should always be appli	ed to a dam	p, primed surfaces. Ap	plica	able to all trowel or sque	eegee app	lication methods.	
Squeegee/Trowel application (rea Pour a manageable quantity of Du resurfacing compound over the su Do not exceed a thickness of 4 mm Subsequent trowel or spray coats Spray application Application will require a moisture Add mix to hopper, ensuring not t Before applying to surface, spray of Spray evenly across the surface, ho Once area has been completely co	ux Avista mix rface. In per coat, at can be applie trap air com o overfill - re on separate f olding the hc	xture onto the damp, p s this may lead to shrink ed to achieve desired c pressor & hopper gun. commend half full. ibro test board to obta pper approximately 60	kage lecor Reco in de Omn	cracking. ative finish. ommended minimum com sired texture. Adjust pre n from the ground.	npressor sp	ecs: 12 cfm with a 70L tank.	
Minimum 2 coats at total of minimu The Dulux Avista Resurfacing Syste - Dulux Avista General Purpose Se - Dulux Avista Extended Wear Sea - Dulux Avista 2 Pack Urethane - Dulux Avista Polyaspartic Sealer	em must be s aler (S/G or r	ealed once the surface	is co	ompletely dry. Options fo	r sealing in	clude:	
SDS Number					SDS Link <u>View SDS Link</u>		
3rd Coat — Dulux Avista Res	urfacing Ba	se Compound					
Coat Type Datasheet 3rd Coat AUAV00006 Dulux Avi			Avist	ista Resurfacing Base Compound			
Read the full Datasheet details at	Dulux Avist	a Resurfacing Base Co	mpo	ound			
Components 3							
Pot Life appox. 30 minutes, depending on ambient conditions				Yield 12.5L			
Application Methods Image: Constraint of the second sec	Broom	🚰 Trowel 🕱	Нор	oper Gun			
	Min			Max		Recommended	
Theoretical Spread Rate (m²/L)	15			30			
Recoat Time **	40			ΝΑ			
V.O.C. Level				Meets GBCA V.O.C. Requirements?			







11 grams per litre		Not Applicable	Not Applicable		
with mechanical mixer at low speed Slowly add Dulux Avista Resurfacing	l until mix colour is unifo g Base Compound, mixii	rm. ng continually.	esurfacing Colour Oxide and mix thoroughly ne polymers to achieve an even consistent		
First coat should always be applie	ed to a damp, primed s	urfaces. Applicable to all trowel or s	queegee application methods.		
Squeegee/Trowel application (rec Pour a manageable quantity of Dul resurfacing compound over the su Do not exceed a thickness of 4 mm Subsequent trowel or spray coats o	ux Avista mixture onto tl face. 1 per coat, as this may le	ne damp, primed concrete surface. U ad to shrinkage cracking.	se squeegee or trowel evenly spread the		
Add mix to hopper, ensuring not to Before applying to surface, spray o Spray evenly across the surface, ho Once area has been completely co Minimum 2 coats at total of minimu	o overfill - recommend h n separate fibro test boo lding the hopper appro vered, allow to dry suffic m 3mm thickness requir m must be sealed once aler (S/G or matt)	alf full. ard to obtain desired texture. Adjust ximately 600mm from the ground.			
DS Number		SDS Link <u>View SDS Link</u>			
Ith Coat — Dulux Avista Cond	crete Sealer General	Purpose Semi Gloss			
Coat Type	Datashee	t			
	Dulux Avista Concrete	Sealer General Purpose Semi Gloss			
Components 1					
Application Methods Air Spray T Brush	T Roller	Broom			
	Min	Max	Recommended		
⁻ heoretical Spread Rate (m²/L)	3	6	4		
Vet Film Per Coat (microns)	80	150	120		
Dry Film Per Coat (microns)	40	80	60		
Recoat Time **			2 hours		
/.O.C. Level 889g per litre		Meets GBCA V.O.C. F Not Applicable	Meets GBCA V.O.C. Requirements? Not Applicable		
Coating Application Details Application Methods Sealer to be applied by a suitable s The sealer must be mixed prior to			I will depend on the profile of the concrete.		







To apply sealer, pour sealer into a roller tray, and evenly roll or broom onto the surface. Ensure sealer is not applied too thick and no pooling occurs as this may cause bubbling. Avoid excess sealer build up on the edges of the roller. This can lead to roller lines in the surface. An additional coat of sealer can be applied after a minimum of 2 hours, (recommended recoat 2 hours)								
Drying time: Minimum of 2 hours between coats when applied at 25°C and above at 50% relative humidity. Recoat times will be longer in cooler weather (<25°C) or higher humidity. Do not apply sealer at temperatures below 8°C or above 35°C. To obtain a higher slip resistance it is advisable to use the appropriate Slip Reducing Additive with the sealer for better grip under adverse conditions e.g. wet areas, steep slopes and pool surround areas.								
SDS Number PAR000582		SDS Link View SDS Link						
5th Coat — Dulux Avista Concrete Sealer General Purpose Semi Gloss								
Coat Type 5th Coat		Datasheet AUAV00019 Dulux Avi	rista Concrete Sealer General Purpose Semi Gloss					
Read the full Datasheet details at <u>E</u>	Dulux Avista	a Concrete Sealer Gener	<u>al Purpose Semi Gloss</u>					
Components 1								
Application Methods								
Air Spray 📍 Brush 🊏 Roller 🛓 Broom								
	Min		Max		Recommended			
Theoretical Spread Rate (m²/L)	3		6		4			
Wet Film Per Coat (microns)	80		150		120			
Dry Film Per Coat (microns)	40		80		60			
Recoat Time **					2 hours			
V.O.C. Level 689g per litre		Meets GBCA V.O.C. Requirements? Not Applicable						
Coating Application Details Application Methods Sealer to be applied by a suitable solvent resistant broom or 11mm-22mm nap roller. Roller used will depend on the profile of the concrete. The sealer must be mixed prior to application using a stirrer or paddle. To apply sealer, pour sealer into a roller tray, and evenly roll or broom onto the surface. Ensure sealer is not applied too thick and no pooling occurs as this may cause bubbling. Avoid excess sealer build up on the edges of the roller. This can lead to roller lines in the surface. An additional coat of sealer can be applied after a minimum of 2 hours, (recommended recoat 2 hours) Drying time: Minimum of 2 hours between coats when applied at 25°C and above at 50% relative humidity. Recoat times will be longer in cooler weather (<25°C) or higher humidity. Do not apply sealer at temperatures below 8°C or above 35°C. To obtain a higher slip resistance it is advisable to use the appropriate Slip Reducing Additive with the sealer for better grip under adverse conditions e.g. wet areas, steep slopes and pool surround areas.								
SDS Number SDS Link PAR000582 View SDS Link								







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WHERE LEAD MAY BE PRESENT: The asset manager is responsible for verifying the presence of lead and determining whether to remove or encapsulate the lead. If lead is present, the work must be done in strict accordance with AS 4361 Parts 1 and 2 and Worksafe Australia guidelines.