

AUEM00136 Emer Silane Sealer Clear on Aged Uncoated Substrate Concrete walls - Off Form, Tilt Up, Pre Cast [Exterior]

Scope of Works

Emer-Proof Silane Sealer is clear, penetrating, water repellent silane-siloxane sealer that can be used on concrete and masonry substrates to provide a clear natural finish while allowing the substrate to breathe. It can be used on all types of new and existing structures including those in coastal environments.

Substrate and Substrate Preparation

Substrate Notes
Concrete is a mixture of Portland cement, fine and coarse mineral aggregates, water and admixtures. Off-form concrete is produced by pouring the wet concrete mix into formwork in which reinforcing steel had been laid. The formwork 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.

Off-form concrete can be produced on site (also known as cast in situ or tilt-up concrete), or off-site (also known as precast concrete).

Precast concrete panels are cast on horizontal formwork, then cured in racks before being delivered to site. Transportation, lifting, and placing precast concrete into position limits panel size.

Substrate Preparation Notes
Assess suitability
Off Form Concrete should be installed as per AS3610 Control of Concrete Surface Formwork (current edition) and AS 3850.2 Tilt-Up Concrete & Pre Cast Elements for use in Buildings (current edition) Examine the surface for the presence of grease, form oils, release agents, mortar splashes, efflorescence or other contaminants.

Check concrete moisture content with a standard moisture meter. Efflorescence is a sign of moisture ingress and must be addressed to ensure concrete moisture content is no greater than 10% before any coating can be applied.

Clean surface
Clean the surface thoroughly by water blasting or detergent cleaning, scrubbing the surface with a stiff bristle broom and a commercial cleaner and hot or cold water followed by a rinse clean with fresh water. Repeat on extremely dirty surfaces until all contaminants are removed. Treat mould or moss with a suitable biocide treatment. Check for grease, form oils, bond breakers, form release agents and other surface contaminants simply by splashing water onto the substrate; if water beads on the surface, then it is contaminated and must be cleaned with a suitable form release agent remover such as Acratex Tiltwash according to instructions.

Repeat until water no longer beads anywhere on the surface. Where doubt exists always refer to the manufacturer of the Release Agent or Bond Breaker on their recommended practice of removal. Ensure that the surface is dry, clean and free from dust.

Repair surface imperfections
Remove embedded steel fragments such as nails, chair legs, tie wires or spacing bars lying on or very close the surface. Clean and coat any remaining visible steel with epoxy mastic to prevent rust stains and premature coating system failure. Fill cracks, blowholes, pinholes and flaws with Acra-Patch Fine or Coarse (depending on size) mixed with 10-20% fresh Portland cement to match the existing surface. Remove shiny surfaces by mechanical abrasion. Prime over any patched sections. Fill structural control or expansion joints with a flexible paintable polyurethane mastic.

Check moisture
Ensure concrete moisture content is less than 10% as measured with a standard moisture meter.

System Summary

• 1st Coat	Emer Silane Sealer Clear
• 2nd Coat	Emer Silane Sealer Clear

System

1st Coat — Emer Silane Sealer Clear

Step Type 1st Coat	Datasheet AUEM00021 Emer Silane Sealer Clear
------------------------------	--

Read the full Datasheet details at <https://duspecplus.com.au/pdf/datasheet/emersilane-sealer-clear/d392456c-ec66-4329-9db2-d054beba6295>

Application Methods



Low pressure spray

	Min	Max	Recommended
Theoretical Spread Rate *	<input type="text"/>	<input type="text"/>	5
Recoat Time **	<input type="text"/>	<input type="text"/>	2 hours

Meets GBCA V.O.C. Requirements?

Not Applicable

Application Details

Emer-Proof Silane Sealer can be applied by brush, roller or low pressure spray.

SDS Link

https://go.lupinsys.com/duluxgroup/harms/public/materials/5bfbb8e2fc84075b52cc9e66e78319c9-published/attachments_api/dda33570fcb9cff44f858fca7936d05e/search_api/EMER-PROOF_SILANE_SEALER-AUS_GHS.pdf

2nd Coat — Emer Silane Sealer Clear

Step Type
2nd Coat

Datasheet
AUEM00021 Emer Silane Sealer Clear

Read the full Datasheet details at <https://duspecplus.com.au/pdf/datasheet/emersilane-sealer-clear/d392456c-ec66-4329-9db2-d054beba6295>

Application Methods



Low pressure spray

	Min	Max	Recommended
Theoretical Spread Rate *	<input type="text"/>	<input type="text"/>	5
Recoat Time **	<input type="text"/>	<input type="text"/>	2 hours

Meets GBCA V.O.C. Requirements?

Not Applicable

Application Details

Emer-Proof Silane Sealer can be applied by brush, roller or low pressure spray.

SDS Link

https://go.lupinsys.com/duluxgroup/harms/public/materials/5bfbb8e2fc84075b52cc9e66e78319c9-published/attachments_api/dda33570fcb9cff44f858fca7936d05e/search_api/EMER-PROOF_SILANE_SEALER-AUS_GHS.pdf

System Notes

* Practical Spreading Rate will vary from the quoted Theoretical Spreading Rate due to factors such as method and condition of application and surface roughness.

** Recoat times are quotes for 20°C and 50% relative humidity, these may vary under different conditions.

*Emer-Proof Silane Sealer should not be contaminated with water. The application of Emer-Proof Silane Sealer should not commence if the temperature of the substrate is below 2°C.

*Emer-Proof Silane Sealer may darken some polymer modified substrates and white cement. A trial area is recommended.

*Emer-Proof Silane Sealer may leave a residue on some tiles if applied excessively. Test absorption of tiles before applying to entire area.

Comments

Comments

Emer-Proof Silane Sealer should not be contaminated with water.

The application of Emer-Proof Silane Sealer should not commence if the temperature of the substrate is below 2°C.

Emer-Proof Silane Sealer may darken some polymer modified substrates and white cement. A trial area is recommended.

*Emer-Proof Silane Sealer may leave a residue on non porous surfaces it is advised to cover the surrounding areas prior to application.

Disclaimer

This Specification is copyright to DuluxGroup (Australia) Pty Ltd and/or DuluxGroup (New Zealand) Pty Ltd (collectively, 'Dulux'). It may not be varied or altered without the prior written consent of Dulux, and if it is, Dulux has no responsibility or liability for those variations.

Unless Dulux has provided you with a customised, project-specific specification, this Duspec+ document does not represent that any particular product or product system will be suitable for your project.

Any information provided in this Duspec+ is given in good faith and is believed by Dulux to be correct at the time of publication. Products and coating systems can be expected to perform as indicated in this Duspec+ document, provided the substrate is in good condition, the coatings are applied by a suitably experienced and skilled applicator, and the preparation, application and maintenance is followed strictly as set out in this Duspec+ document, and as recommended on the applicable Dulux Product Data Sheet and Safety Data Sheets for the relevant products (available from www.duspecplus.com.au). Climatic conditions at application time can affect Duspec+ documentation suitability and product performance.

The correct colour or colour match is the responsibility of the applicator. Colours will change over time and Dulux does not guarantee that the same colour newly mixed will match a colour applied earlier which has been subjected to weathering or other change elements. No product colour is guaranteed against colour change.

Where any liability of Dulux in respect of this Specification cannot by law be excluded, Dulux's liability is limited, as permitted by law and at Dulux's option, to resupply of the relevant products or services or to reimbursing the cost of those products or services.

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.