

Resene Mica Bond

micaceous
pigmented alkyd
finish

Resene Mica Bond is an oleoresinous based micaceous iron oxide pigmented coating modified with aluminium to provide lighter colours. Resene Mica Bond is highly resistant to weathering, and mildly corrosive conditions. Its pigmentation confers a very high degree of moisture vapour resistance due to its laminar type structure.

exterior/interior

Typical uses

As a topcoat on suitably primed steel such as:

- Bridges
- Cranes
- Gas holders
- Harbour installation
- Pipelines
- Primed aluminium
- Primed galvanised steel
- Silos
- Roofing
- Transmission towers

Vehicle type	Alkyd
Pigmentation	Micaceous iron oxide with aluminium
Solvent	Mineral turps
Finish	Metallic
Colour	Silver grey, medium grey, dark grey (BS5252, OOA05, OOA09, OOA13 respectively)
Dry time (minimum)	4-6 hours at 18°C
Recoat time (minimum)	16 hours at 18°C
Primer required	Yes
Theoretical coverage	11 sq. metres per litre
Recommended DFT	50 microns per coat
Usual no. of coats	2
Abrasion resistance	Acids – fair; alkalis - poor
Chemical resistance	Very good
Heat resistance	120°C (dry)
Solvent resistance	Good.
Thinning and clean up	Mineral turps (brush/roller application) Resene Thinner No.9 (spray application)

Physical properties

Performance

Performance and limitations

1. Excellent brushing properties and intercoat adhesion.
2. Excellent U.V. and water resistance.

Limitations

1. When brush applied lap marking may occur. Where possible brushstrokes should be in the one direction and laps be on weld seams, rivet lines or bolt joints.
2. When applied over zinc rich primers, a non-saponifiable barrier coat **must** first be applied
3. Drying will be impaired if application dry film thickness exceeds 50 microns per coat.
4. Drying times may be extended when applied directly over Resene Vinyl Etch (see [Data Sheet RA31](#)) or Resene Armourcote 220 (see [Data Sheet RA34](#)).

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Surface preparation

Aluminium, galvanised steel, Zincalume

Remove oil or grease film with Resene Roof Wash and Paint Cleaner (see [Data Sheet D88](#)) and rinse thoroughly. Prime prepared galvanised steel/Zincalume with Resene Galvo One (see [Data Sheet D41](#)) and aluminium with Resene Vinyl Etch (see [Data Sheet RA31](#)) or Resene Armourcote 210 (see [Data Sheet RA35](#)).

Repaints

All surfaces must be clean, dry, tightly bonded and free of all loose paint, corrosion products or chalky residue (suitable methods include pressure water-washing at 3000 psi or greater, SSPC SP1, SSPC SP3, or SSPC SP7). Feather back damaged coatings to a sound edge. All corrosion on metals should be treated to suit the primer selected. If required spot prime bare areas with recommended substrate primer. Apply a test patch to confirm compatibility and adhesion.

Steel

Degrease according to SSPC SP1 solvent cleaning. Remove all weld spatter, radius all sharp edges and welds. Surface preparation will be as described for suitable primers. Recommended single pack primers include Resene Rust-Arrest (see [Data Sheet RA30A](#)), Resene Armourchlor HB-P (see [Data Sheet RA60](#)) and Resene Armourcote 210 (see [Data Sheet RA35](#)).

Residues and dust from old paint systems containing lead or chromate may be dangerous to the health of the operator and the environment. Ensure approved procedures are put in place to safeguard against this.

Application

Mixing

Thoroughly stir until uniform using an explosion-proof power mixer.

Thinning

- Mineral turps - brush/roller application.
- Resene Thinner No.9 - conventional spray.

Avoid excessive thinning as pigment separation can occur resulting in a non-uniform finish. Thinned product should be remixed at regular intervals during application to maintain finish uniformity.

Application - brush/roller

Apply two coats to appropriately prepared substrate allowing 16 hours between coats.

Application - conventional spray

Industrial equipment with a De Vilbiss JGA gun. Thin judiciously with Resene Thinner No.9 to improve atomisation. Excessive thinning will result in running and sagging. For best results, spray in one direction without interruption until the section is complete. The film will achieve a uniform appearance after a short period of direct weathering.

Safety precautions

Consult Safety Data Sheet for this product prior to use. Users should ensure that they are familiar with all aspects concerning safe application of this product. IF IN DOUBT, DO NOT USE THIS PRODUCT.

*Please ensure the current Data Sheet is consulted prior to specification or application of Resene products.
If the surface you propose to coat is not referred to by this Data Sheet, please contact Resene for clarification.*