

Resene ArmourZinc 125 Inorganic Hybrid Primer

Resene ArmourZinc 125 is a two-pack, inorganic hybrid, zinc rich primer. Base primer for high performance protective coating systems for steel structures in demanding environments. Fast dry-to-recoat increases throughput of multi-coat systems. Unique rheology allows defect-free films to be readily produced. Cures to a dense film with minimal pinholing when overcoated.

Typical uses

- General purpose primer for a variety of high performance coating systems to protect steel structures against corrosion

Information contained in this Data Sheet is re-validated every two years following issue date. Please ensure the current Data Sheet and Material Safety Data Sheet are consulted prior to specification or application of product. If in doubt contact Resene.

Physical properties

Vehicle type	Inorganic hybrid
Hardener	Polyamide
Pigmentation	Metallic zinc
Solvent	Aromatic/ester
Pot life	8 hours at 25°C
Mixing Ratio	4:1 (by volume)
Induction time	15 minutes
Finish	Matt
Colour	Green
Dry time	Touch: 45 minutes at 25°C
Recoat	Minimum: 1 hour at 25°C Maximum: Varies with environmental conditions and topcoat; consult manufacturer for recommendation
Overcoating	Chlorinated rubbers, epoxies, urethanes, vinyls
Theoretical coverage	8.5 sq. metres per litre at 75 microns DFT
Volume solids	64%
Recommended DFT	75 microns
Usual no. of coats	1 (wet on wet)
Abrasion resistance	Excellent
Chemical resistance	Satisfactory within pH range 6.0-10.5
Heat resistance	200°C
Solvent resistance	Excellent when topcoated (splash and spillage)
Durability	Excellent when topcoated to provide complete system
Thinning and clean up	Resene Thinner No.3A
Pack size	1 and 4 litre
VOC	415 grams per litre mixed unthinned

Performance

Performance and limitations

1. Primer for long-term corrosion protection for mild steel in conjunction with a suitable topcoat system.
2. Ease of application.
3. Minimal pinholing when topcoating.
4. Fast topcoat potential.
5. Good low temperature cure properties.

Limitations

1. Not suitable as a tank lining for containment of chemicals or solvents.
2. Overcoating systems must be non-saponifiable.
3. Must not be allowed to come into direct contact with acid or alkaline solutions outside pH range indicated above.
4. Will chalk when exposed to direct sunlight.
5. Must be topcoated with an appropriate topcoat system for long-term corrosion protection in environments with medium to high corrosivity classification.

ArmourZinc 125 Inorganic Hybrid Primer

Surface preparation

Coating performance in general is proportional to the degree of surface preparation. Surface must be clean and dry and free from all contaminants.

Repair

- **Epoxy or urethane surfaces** - Brush blast or sand to mechanically roughen coating at damaged areas. Remove all dirt, dust, oil, grease and loose material.
- **Inorganic zinc surfaces** - Clean and dry surface making it free from oil, grease, dirt, dust and loose paint. For best results blast damaged areas to "near white" metal according to SSPC-SP10 (Sa 2.5) or mechanically clean.

Steel

Degrease according to SSPC-SP1 solvent cleaning. Remove all weld spatter, radius sharp edges, and grind weld seams. Blast clean in accordance with SSPC-SP10 (Sa 2.5). For total immersion blast clean in accordance with SSPC-SP5 (Sa 3). Blast to achieve a 25-50 micron anchor profile. For mild exposures, power tool cleaning in accordance with SSPC-SP3 is acceptable.

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 contents of base container until uniform using an explosion proof power mixer. Continue stirring while adding the total contents of the hardener container to the total contents of the base container. Power mix until uniformly blended. Allow mixed product to stand for at least 15 minutes before use or thinning.

Thinning

- **Airless spray** - not normally required.
- **Conventional spray** - thin up to 15% by volume of mixed material with Resene Thinner No.3A. Quantity of thinner required will vary according to spray equipment and environmental conditions.

Application

Resene ArmourZinc 125 can be applied by spray, roller or brush. Spray application by airless or conventional spray equipment is the preferred method of application. Brush or roller application is only recommended for touch-up or repair of small areas.

When applying by conventional spray use a mechanically agitated pot with bottom outlet, ensure moisture and oil traps are included in the main air supply line. Do not use long fluid lines and avoid settlement of zinc by recycling techniques. Apply a heavy, wet coat in even, parallel passes, overlapping each pass by 50% to avoid holidays, bare areas and pinholes. If required, follow with a cross spray pass at right angles to the first pass. Random pinholes, holidays and small damaged or bare areas can be touched up by brush when the film is dry to touch. Larger areas should be resprayed.

Airless spray - Standard airless equipment with a 28:1 pump ratio and a 17 thou fluid tip is recommended

Safety precautions

Consult Material 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.

*Information contained in this Data Sheet is re-validated every two years following issue date.
Please ensure 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.*