

# 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

## Physical properties

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