

Resene ArmourZinc 120

zinc epoxy primer

Resene ArmourZinc 120 is a tough, abrasion resistant film that bonds strongly to steel, inorganic zinc and existing epoxy surfaces. Zinc content of the coating gives steel cathodic protection if the film is damaged. Rapid drying and topcoating allows for early handling of steel when used as shop primer or on site applications.

Typical uses

- Fertiliser plants
- Gas plants
- Hydro-electric installations
- Marine
- Oil refineries
- Petro-chemical plants
- Power plants
- Preconstruction or touch-up primer for inorganic zinc
- Pulp and paper mills
- Tanklining (when suitably topcoated) for mineral oils, aromatic/aliphatic solvents, vegetable oils

Physical properties

| | |
|------------------------------|---|
| Vehicle type | Two component epoxy |
| Hardener | Polyamide |
| Pigmentation | Metallic zinc |
| Solvent | Aromatic/ketone/ether |
| Pot life | 12 hours at 21°C; 18 hours at 10°C |
| Mix ratio | 4:1 (by volume) |
| Finish | Matt |
| Colour | Grey/green |
| Dry time (minimum) | Touch: 30 minutes at 21°C; 30 minutes at 10°C Through: 30 minutes at 21°C; 1 hour at 10°C |
| Recoat time (minimum) | 3 hours at 21°C; 5 hours at 10°C Overcoat with chlorinated rubbers, epoxies, urethanes, vinyls |
| Primer required | No |
| Theoretical coverage | 6.75 sq. metres per litre |
| Volume solids | 51% |
| Recommended DFT | 75 microns per coat |
| Usual no. of coats | 1 (wet on wet) |
| Abrasion resistance | Excellent |
| Chemical resistance | Satisfactory within pH range 6.0-10.5 |
| Solvent resistance | Excellent |
| Durability | Excellent |
| Toxicity | Non toxic (dry film) |
| Thinning and clean up | Resene Thinner No.12 |

Performance

Performance and limitations

1. More tolerant of imperfect surface preparation than inorganic zinc silicates.
2. Will cure satisfactorily at low humidities and in windy conditions.
3. Suitable for repair of welded joints on zinc coated surfaces where abrasive blasting is precluded.
4. Fast topcoat potential.

Limitations

1. If air or surface temperatures exceed 35°C at application consult manufacturer for thinning recommendations.
2. Full curing, air and surface temperatures must be above 10°C.
3. Must not be allowed to come into contact with acid or alkaline solutions outside pH range indicated above.
4. Overcoating systems must be non-saponifiable.

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Surface preparation

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

Stir contents of each component separately until uniform using a power mixer. Add total contents of hardener container to total contents of base container and power mix until uniformly blended to a workable consistency. Allow mixed product to stand for at least 15 minutes.

Thinning

Not normally required. If thinning is necessary for workability, thin with up to 5% Resene Thinner No.12.

Application

- **Airless spray** - Standard airless equipment with a 28:1 pump ratio and a 17 thou fluid tip is recommended.
- **Conventional spray** - Use a De Vilbiss MBC or JGA Gun with 'E' Fluid Tip and air cap 704-78 or 765.

When applying by conventional spray use a mechanically agitated pot with bottom outlets, 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.

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.

In Australia
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Resene
the paint the professionals use

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