Resene Armourchlor HB-P

vinyl high build primer

Resene Armourchlor HB-P is a vinyl based anti-corrosive primer for direct application to suitably prepared steel or an intermediate coat over zinc rich primers or galvanising. The coating has a very high degree of impermeability and although blast cleaning must always remain the preferred method of surface preparation it will give superior performance over power or hand cleaned steel.

exterior/interior

Typical uses

- Bridges
- Chemical plants
- Cranes
- Galvanised iron
- General structural steelwork
- Marine structures
- Roofs
- Ships
- Tank farms
- Towers

Physical properties

Vehicle type	Vinyl chloride co-polymer
Pigmentation	Zinc phosphate/titanium dioxide/chemically resistant extenders
Solvent	Aromatic/Ester/Ketone
Colour	Blue
Dry time (minimum)	Touch dry: 2 hours at 18ºC
Recoat time (minimum)	12 hours at 18ºC
Primer required	Although a primer itself, can be used as a barrier coat over other primers
Theoretical coverage	4.5 sq. metres per litre at 75 microns DFT
Recommended DFT	150 microns (self-primed) 75 microns (over zinc rich primer)
Usual no. of coats	1-2 (dependent on dry film thickness)
Abrasion resistance	Excellent
Chemical resistance	Acids and alkalis - excellent
Heat resistance	50ºC
Solvent resistance	Aliphatics – good; others - poor
Durability	Excellent
Thinning	Resene Thinner No.7A
Clean up	Resene Thinner No.12
Pack size	4 and 20 litre

Performance and limitations

Performance

1. May be applied over a wide range of temperatures -20º C to +50º C.
2. Excellent intercoat adhesion both initially and long-term.
3. Fast drying
4. Intermediate coat over galvanising or zinc rich primers, such as Resene Zincilate 10/11 (see Data Sheet RA20/RA21) or Resene ArmourZinc 110 (see Data Sheet RA23).

Limitations

1. Solvent resistance – see above.
2. Not resistant to vegetable oils or animal fats.
3. Will soften at temperatures above 50ºC.
4. Heavy film thicknesses require extended drying prior to overcoating with alkyds, acrylics or Resene Polymeric AV-8 (see Data Sheet RA63).
5. Overcoat with acrylics, alkyds, chlorinated rubbers and vinyls (light topcoat colours to be used irrespective of topcoat type).
6. Not recommended for total immersion service.

Please ensure the current Data Sheet and Safety Data Sheet are consulted prior to specification or application of product. If in doubt contact Resene.

Armourchlor HB-P vinyl high build primer

Surface preparation

Coated surface

Clean by high pressure (3000 psi or greater) waterblast, abrasive blast (SSPC SP7 (Sa 1)) or power tool cleaning (SSPC SP3). Feather back damaged coatings to a sound edge. Spot prime any bare areas with recommended substrate primer. Surface must be clean, dry and free from oil, dirt or other contaminants. Apply TEST PATCH to confirm compatibility and adhesion.

Concrete

Leave new concrete to cure for a minimum of 28 days before painting. Surfaces shall be free of laitance, form release agents, curing agents, oil, grease and other penetrating contaminants. Concrete floors must be profiled by captive shot blasting, abrasive blasting, diamond grinding or acid etching (see Data Sheet D83). Profiling should produce a profile similar to 180 grit sandpaper. If this is not achieved, repeat the profiling process. After profiling fill all small holes or voids by application of Resene Epox-O-Bond (see Data Sheet D808).

Galvanising/Zincalume

Remove oil and grease film with Resene Roof Wash and Paint Cleaner (see Data Sheet D88). Slightly roughen surface by light sanding, or alternatively lightly blast with fine non-metallic abrasive (particularly important for a glazed surface).

Steel

For best results, abrasive blast cleaning is recommended. Degrease according to SSPC-SP1 solvent cleaning. Remove all weld spatter and radius sharp edges. Weld flux should be removed by wire brushing and washing with a neutral detergent solution followed by thorough rinsing with copious amounts of freshwater. Blast clean to SSPC-SP10 (Sa 2.5) or better. Blast to achieve a 25-50 micron anchor profile. Rougher profiles are acceptable but require increased film thickness for equivalent protection.

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: Resene Thinner No.7A.

Application

When applying Resene Armourchlor HB-P directly over inorganic zinc, zinc rich primers or porous surface, apply a mist coat of thinned product to minimise bubbling. Allow solvent to flash off then apply a full body coat to achieve required dry film thickness.

- **Airless spray** - Standard airless equipment with a 30:1 pump ratio and a 17-21 thou tip is recommended. Thinning is not normally required for airless spray application.
- **Conventional spray** - Industrial equipment such as a De Vilbiss MBC or JGA spray gun. Separate regulators for air and fluid pressure, and a moisture and oil trap in the main air supply line are recommended. Apply a wet coat in even parallel passes, overlapping each pass 50% to avoid holidays, pinholes and bare areas. Double coat all welds, rough spots, sharp edges, corners, rivets and bolts, etc. Random pinholes, holidays, bubbles and small damaged areas can be touched up by brush when film is touch dry.

A two coat application is required to achieve dry film thicknesses in excess of 125 microns. Allow first coat to dry for recommended recoat time before applying second coat of primer.

Small areas can be touched up by brush but the high level of thinner required for brush application reduces the desirable film build properties.

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.

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