

PROTEGASHIELD ERV(HS)

DESCRIPTION

A compliant, recoatable, two pack epoxy intermediate or finish.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Conforms to Network Rail specification RT98 Item 7.2.2 and BS5493 requirements.
- ◆ Low temperature curing and reduced tendency to bloom.
- ◆ Excellent build and hold up on edges.
- ◆ Indefinite recoatability provides confidence when applied as a final works coat, to receive various site finish coats without the need for abrading.
- ◆ Can be overcoated by most generic top coats including alkyd, chlorinated rubber, vinyl, epoxy and polyurethane.
- ◆ Use on internal and external steelwork in chemical and petrochemical environments.
- ◆ Normally tinted to a suitable shade to receive a polyurethane (ProtegaThane) or epoxy acrylic (ProtegaSeal EA80 or EA90) finish, where a UV stable topcoat is required.
- ◆ EPA compliant when applied as an intermediate or finish coat (<250gm/ltr).

TECHNICAL DATA

Volume solids 70 ± 2% mixed (ISO 3233).

Weight solids 85 ± 2% mixed.

Specific gravity 1.64 – 1.66 (mixed)

Product code

Paint	3 parts by volume	2937 series
Activator	1 part by volume	4056 300
Composite		4803 series

Pot life 4 hours @ 23°C.

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
75 µm	107 µm	9.3 m ² /l
250 µm	360 µm	2.8 m ² /l

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.

Drying time

DFT 75 µm		+5°C	+10°C	+23°C	+35°C
Dust Free		5 h	3 h	2 h	1 h
Hard Dry		12 h	9 h	6h	4 h
Overcoating	min	24 h	16 h	See Product Notes	
	max	*Indefinite			

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

Finish Semi-gloss

Colours BS4800, RAL, BS2660, BS381C and special colours.

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APPLICATION DETAILS

Surface preparation This product is an intermediate/finish coat which should be applied over suitable a Protega primer.
Surfaces should be clean, dry and free from all grease, oil and general contamination.

Application conditions Only apply in conditions of good ventilation which should be maintained during drying. Do not apply when rain, mist, sleet or snow are imminent. During application and drying time of the paint coating, the surface should be dry, the Relative Humidity should not exceed 85% and the steel temperature should remain at least 3°C above the dew point.

Mixing Mix only in the proportions stated, mixing each component individually then together using a mechanical agitator.

Application

Method	Airless Spray	Automatic Spray	Conventional Spray	Brush	Roller
Output Fluid Pressure	2500 – 3000 p.s.i.	No	Any suitable equipment. Thinning may be necessary.	Yes	Yes
Tip Size	18 – 26 thou				

Refer to Protega Epoxy Application/Curing notes.
Brush/Roller application will result in reduced dft. This method will provide approximately 100 microns dry.
Apply to maximum 250 microns dry.

Thinner 1031 Thinner.

Cleaning of equipment Remove remaining paint from equipment, flush thoroughly with 950 Thinner until solvent appears uncontaminated.

FLASH POINT 22 – 32°C

STORAGE Store in dry, cool conditions and protect from frost.

VOC Volatile Organic Compound content: 247 ± 20 gm/ltr, varies with colour.

HEALTH AND SAFETY Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets.
A health and safety data sheet is available on request from Protega Coatings Ltd.

PRODUCT NOTES Curing will be retarded below 0°C. Do not apply below 5°C.
Product will chalk, the degree of which is subject to atmospheric conditions.

*Indefinitely recoatable with ProtegaSeal EA80 or EA90, and ProtegaThane PLV and PLS(HS). Maximum overcoating times assume a clean dry surface.

Minimum Overcoating (when ERV(HS) is applied up to 100 microns dft):
- with itself, or ProtegaSeal EA80 or EA90: minimum 4 hours @23°C.
- with ProtegaThane PLV or PLS(HS) polyurethane: minimum 12 hours @ 23°C.