

## PROTEGASHIELD SPF & SPF(L)

### DESCRIPTION

Low temperature curing, fast set, high build, epoxy zinc phosphate primer/finish.

### PRODUCT FEATURES AND RECOMMENDED USES

- ◆ EPA compliant when applied as a primer/finish or blast primer.
- ◆ Cures down to 0°C – low tendency to bloom.
- ◆ Rapid drying together with indefinite overcoating (see below).
- ◆ Formulated to be readily available in a wide colour range, this product takes the guesswork out of volume commitments for the fabricator/applicator. The 20 litre minimum order size means continual supply throughout a contract is ensured.
- ◆ Suitable as a base under most intumescent coatings (consult Protega for full details).
- ◆ Good resistance to undercutting from damage and excellent build and hold up on edges.
- ◆ Ideal works coat to be overcoated by most generic topcoats including alkyd, vinyl, epoxy and polyurethane.
- ◆ When overcoating with a cosmetic finish, the colour of ProtegaShield SPF can be an ideal “undercoat” shade, to ensure excellent coverage with a single finish coat.
- ◆ Use as a single coat primer/finish for works application on dry internal buildings such as Warehousing, DIY stores, Office Complexes, Shopping Malls etc., or as a primer to be overcoated for external steelwork.
- ◆ Suitable for application by airless spray, brush or roller.

### TECHNICAL DATA

#### Volume solids

60 ± 2% mixed (ISO 3233).

#### Weight solids

76 ± 2% mixed.

#### Specific gravity

1.54 – 1.58 mixed.

#### Product code

Paint	3 parts by volume	3403 series and 3321 series ((L) version)
Activator	1 parts by volume	4050 077
Composite		4884 series and 4888 series ((L) version)

#### Pot life

8 hours @ 23°C.

#### Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
75 µm	125 µm	8.0 m <sup>2</sup> /l
200 µm	333 µm	3.0 m <sup>2</sup> /l

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

#### Drying time

DFT 100 µm		+10°C	+23°C	+35°C
Dust Free		1 h	30 min	15 min
Hard Dry		4 h	2 h	1 h
Overcoating	min	See Product Notes over		
	max	Indefinite if clean, sound and free from chalking		

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

#### Finish

Semi-gloss

#### Colours

Red Oxide, Grey, White, and a full range of BS, RAL and other shades readily available.

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### APPLICATION DETAILS

**Surface preparation** Degrease steel where necessary to SSPC-SP1 solvent cleaning to remove weld flux and general contamination prior to blasting.  
All sharp edges should be ground and weld spatter removed.  
Blast clean to Swedish Standard SIS 05 5900 Sa 2½ or British Standard 7079 equivalent by dry or wet blasting techniques.  
Maximum profile 75 microns.  
Surfaces should be clean and dry and free from oil, grease, salts, dirt 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. Ensure complete homogeneity before using.

### 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	15 – 21 thou				

Refer to Protega Epoxy Application/Curing notes.  
For airless spray application at low temperatures, up to 5% by volume of 1031 Thinner may be added to ensure achievement of a closed film.  
Brush/Roller application will result in a reduced dft of approx. 60 microns.  
Avoid exceeding the maximum stated dry film thickness.

**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.

**VOC** Volatile Organic Compound content: 382 ± 20 gm/ltr, varies with colour.

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

**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** Product will chalk, the degree to which is subjected to atmospheric conditions.  
This product requires 3 days to fully cure at 23°C.  
Do not apply or cure below 0°C.  
**Min. Overcoating** (at 23°C, when SPF is applied at 75-100 microns dft):  
- with ProtegaShield ERV(HS), ProtegaCoat GPL and itself: min 4 hrs;  
- with ProtegaThane PLV or PLS(HS) or ProtegaSeal EA80 or EA90: min 6 hrs.  
Extend overcoating times when higher film builds have been applied and/or at lower temperatures.  
A minimum of 100 microns dft of ProtegaShield SPF will be required for a consistent finish with white and pale shades.  
Some shades may contain lead colourants and these are labelled ProtegaShield SPF(L).