

## PROTEGASHIELD EPY102

### DESCRIPTION

A two component epoxy, adhesion promoting, wash coat.

### PRODUCT FEATURES AND RECOMMENDED USES

- ◆ A primer for application to steel, plaster, concrete, brickwork or new timber, where an epoxy system is to be applied. This material is eminently suitable as a primer for steel in food factories, creameries etc., where a 'non toxic' system is required. Will withstand temperatures up to 175°C.
- ◆ This product provides excellent adhesion to prepared aged epoxy coatings.
- ◆ Good adhesion to Terrazo tiles and other difficult substrates.
- ◆ EPA compliant as blast primer.
- ◆ Suitable as an adhesion coat for bright, degreased galvanised and aluminium surfaces where a 'white' primer is preferred.

### TECHNICAL DATA

**Volume solids** 42 ± 2% (ISO 3233) mixed.

**Weight solids** 62 ± 2% mixed.

**Specific gravity** 1.33 – 1.35 (mixed)

**Product code**

|           |                   |          |
|-----------|-------------------|----------|
| Paint     | 4 parts by volume | 3320 001 |
| Activator | 1 part by volume  | 4050 101 |
| Composite |                   | 4851 110 |

**Pot life** 8 hours @ 23°C.

### Recommended film thicknesses and theoretical coverage

| Recommended film thicknesses |       | Theoretical coverage   |
|------------------------------|-------|------------------------|
| dry                          | wet   |                        |
| 30 µm                        | 72 µm | 14.0 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 30 µm   |     | +10°C | +23°C     | +35°C |
|-------------|-----|-------|-----------|-------|
| Dust Free   |     | 5 h   | 2 – 4 h   | 2 h   |
| Hard Dry    |     | 20 h  | 12 – 16 h | 12 h  |
| Overcoating | min | 20 h  | 16 h      | 12 h  |
|             | max | 7 d   | 7 d       | 3 d   |

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

**Finish** Matt.

**Colours** White.

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### APPLICATION DETAILS

**Surface preparation**

**Steel** – Degrease 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 Sa2½ or British Standard 7079 equivalent. Maximum profile 75 microns.  
If blasting is impractical, apply over ProtegaBond ST200 or WG200 surface tolerant primers.

**New Plaster, concrete, brickwork** – should be thoroughly dry, laitance removed from concrete and all building residue removed. Blockwork walls can be sealed using a suitable Block Filler.

**New Galvanised or Aluminium Surfaces** – Degrease using ProtegaClene 'C', fresh water wash and allow to dry. Lightly abrade **ALL** surfaces to obtain a key.  
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 use.

**Application**

| Method                | Airless Spray | Automatic Spray | Conventional Spray     | Brush | Roller |
|-----------------------|---------------|-----------------|------------------------|-------|--------|
| Output Fluid Pressure | 2000 p.s.i.   | No              | Any suitable equipment | Yes   | Yes    |
| Tip Size              | 13 thou       |                 |                        |       |        |

Refer to Protega Epoxy Application/Curing notes.  
Avoid exceeding the maximum stated dry film thickness.

**Thinner**

1031 Thinner.

**Cleaning of equipment**

Remove remaining paint from equipment, flush thoroughly with 1031 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: 510 ± 20 gm/ltr.

**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**

Do not apply or cure below 10°C.  
Product will chalk, the degree to which is subject to atmospheric conditions.  
Suitable for overcoating with conventional, epoxy or polyurethane top coats.