

## PROTEGASHIELD EMM800

### DESCRIPTION

A two component, high solids, quick drying, epoxy MIO high build intermediate/finish coat.

### PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Conforms to Highways Agency Item 112.
- ◆ EPA Compliant as an intermediate or finish coat.
- ◆ High performance, high build, low VOC coating.
- ◆ Low temperature curing.
- ◆ Excellent build and hold-up.
- ◆ Excellent barrier properties combined with toughness and durability.
- ◆ Indefinite overcoating with recommended top coats.
- ◆ Suitable for overcoating with chlorinated rubber, epoxy, polyurethane and certain alkyds.

### TECHNICAL DATA

**Volume solids** 72 ± 2% mixed (ISO 3233).

**Weight solids** 88 ± 2% mixed.

**Specific gravity** 1.93 -1.95 mixed

**Product code**

|           |                   |                                 |
|-----------|-------------------|---------------------------------|
| Base      | 2 parts by volume | 2912 800 (EMM800) -801 (EMM801) |
| Hardener  | 1 part by volume  | 4056 302                        |
| Composite |                   | 4822 001 (EMM800) -002 (EMM801) |

### Recommended film thicknesses and theoretical coverage

| Recommended film thicknesses |        | Theoretical coverage   |
|------------------------------|--------|------------------------|
| dry                          | wet    |                        |
| 100 µm                       | 139 µm | 7.2 m <sup>2</sup> /l  |
| 175 µm                       | 243 µm | 4.11 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

| At 100um dft |     | 5°C                            | 10°C   | 20°C   | 30°C    |
|--------------|-----|--------------------------------|--------|--------|---------|
| Dust Free    |     | 3 hrs                          | 2 hrs  | 1 hrs  | 30 mins |
| Hard Dry     |     | 9 hrs                          | 6 hrs  | 3 hrs  | 1½ hrs  |
| Overcoating  | Min | *9 hrs                         | *6 hrs | *3 hrs | *1½ hrs |
|              | Max | *Indefinite if clean and sound |        |        |         |

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

\*Refer to Product Notes over.

**Finish** Matt

**Colours** Dark Grey (EMM800), Medium Grey (EMM801).

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### APPLICATION DETAILS

**Surface preparation** This product is an intermediate/finish coat and should be applied over appropriate Protega primers – consult Protega Coatings for advice.  
All surfaces should be clean and free from grease, oil and other contamination.

**Application conditions** Only apply in conditions of good ventilation which must 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 separately, 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              | No                 | Yes   | Yes    |
| Tip Size              | 18 – 21 thou       |                 |                    |       |        |

Refer to Protega Epoxy Application & Curing Notes.  
Brush/Roller – small areas only, film build may not be achieved.  
Avoid exceeding 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.

**Pot Life** 4 hours at 20°C.

**FLASH POINT** 22 – 32°C.

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

**VOC** Volatile Organic Compound content: 240 ± 20 gm/lit, 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** Do not apply below 5°C or above 90% RH.  
Product will chalk, the degree of which is dependent on atmospheric conditions.  
**\*Overcoating:**  
Overcoat with itself, ProtegaShield ERV(HS), ProtegaCoat GPL, ProtegaSeal EA80 or EA90, or ProtegaThane PLV or PLS(HS).  
When overcoating with ProtegaThane PLV, PLS(HS) or ProtegaSeal EA80, EA90 – allow 12 hours minimum at 20°C, when ProtegaShield EMM800 is applied at 100 microns dft. Allow longer drying and overcoating times at higher dft's and lower temperatures.