

PROTEGASHIELD EMP700

DESCRIPTION A two component, high solids, quick drying, epoxy zinc phosphate primer.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Conforms to Highways Agency Item 111.
- ◆ EPA compliant as a primer.
- ◆ High performance, low VOC coating.
- ◆ Excellent build and hold-up.
- ◆ Low temperature curing.
- ◆ 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 86 ± 2% mixed.

Specific gravity 1.68 – 1.72 (mixed).

Product code

| | | | |
|-----------|-------------------|-------------------|---------------|
| Paint | 2 parts by volume | 3402 001 (EMP700) | -002 (EMP701) |
| Activator | 1 part by volume | 4056 301 | |
| Composite | | 4823 001 (EMP700) | -002 (EMP701) |

Pot life 4 hours @ 23°C.

Recommended film thicknesses and theoretical coverage

| Recommended film thicknesses | | Theoretical coverage |
|------------------------------|--------|------------------------|
| dry | wet | |
| 70 µm | 97 µm | 10.3 m ² /l |
| 150 µm | 208 µm | 4.8 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 100 µm | | +5°C | +10°C | +23°C | +35°C |
|-------------|-----|--------------------------------|-------|-------|--------|
| Dust Free | | 3 h | 2 h | 1 h | 30 min |
| Hard Dry | | 9 h | 6 h | 3 h | 1½ h |
| Overcoating | min | *9 h | *6 h | *3 h | *1½ h |
| | 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 Red Oxide (EMP700), Grey (EMP701).

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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 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. Ensure complete homogeneity before use.

Application

| Method | Airless Spray | Automatic Spray | Conventional Spray | Brush | Roller |
|-----------------------|--------------------|-----------------|--------------------|-------|--------|
| Output Fluid Pressure | 2500 – 3000 p.s.i. | No | No | Yes | Yes |
| Tip Size | 17 – 23 thou | | | | |

Refer to Protega Epoxy Application/Curing notes.
Brush/roller – small areas only, film build may not be achieved.
Avoid exceeding the maximum 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

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

VOC Volatile Organic Compound content: 239 ± 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 Do not apply or cure below 5°C or above 90% RH.
Product will chalk, the degree of which is dependent on atmospheric conditions.
***Overcoating:**
Overcoat with itself, ProtegaShield EMM800, 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 @ 23°C, when ProtegaShield EMP700 is applied at 100 microns dft. Allow longer drying and overcoating times at higher dft's and lower temperatures.