

PROTEGATAR ECF036 & ECF037

DESCRIPTION A high build, isocyanate cured coal tar epoxy.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ EPA compliant as a finish coat.
- ◆ High build – up to 400 microns in one coat.
- ◆ Fast drying.
- ◆ Will cure at low temperatures – down to -5°C.
- ◆ Ideal for both new construction and maintenance, for harbours, jetties, marine immersed steelwork, piling, etc.
- ◆ Jetty maintenance – suitable for blasting down with the tide and applying by airless spray in a single coat up to 300 – 400 microns dft. Product cures rapidly to minimise tidal forces affecting the coating (except for low water mark).

TECHNICAL DATA

Volume solids 66 ± 2% mixed (ISO 3233)

Weight solids 76 ± 2% mixed.

Specific gravity 1.38 – 1.42 mixed

Product code

Base	7 parts by volume	2921 036 & 037
Hardener	1 part by volume	4071 088
Composite		4811 036 & 037

Pot life 1½ – 2 hours @23°C.

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
100 µm	151 µm	6.6 m ² /l
500 µm	757 µm	1.3 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 125 µm	+ 10 °C	+ 23 °C	+ 35 °C
Dust dry	1 h	30 min	15 min
Hard dry	6 h	3 h	2 h
Overcoating	18 h	*12 h	8 h
	7 d	7d	5 d

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

Finish Semi-gloss

Colours Black (ECF036), Brown (ECF037).

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APPLICATION DETAILS

Surface preparation 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 Sa 2½ or British Standard 7079 equivalent by dry or wet blasting techniques.
Maximum profile 75 microns.
Surface 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 using.

Application

Method	Airless spray	Automatic Spray	Conventional Spray	Brush	Roller
Output Fluid Pressure	2000 – 3000 p.s.i.	No	No	Yes	No
Tip Size	20 – 30 thou				

Brush application – this will give reduced thicknesses of 50 – 80 microns dft.
Airless spray application – can be sprayed up to 1000 microns wet (660 dry) in one application, but it is recommended not to exceed 500 dry per coat.
If a holding primer is required use ProtegaTar ECF036 mixed in equal volume with 1700 Thinners as a wash coat, which should be overcoated within 3 to 5 days. This thinned wash coat should be applied at 25 to 50 microns dft. If using any other holding primer, the dft of the primer should be kept to a minimum and advice sought from Protega Coatings before use.

Thinner 1031 or 1700 Thinner.

Cleaning of equipment Remove remaining paint from equipment, flush thoroughly with 1031 Thinner until solvent appears uncontaminated.

FLASH POINT Below 22°C

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

VOC Volatile Organic Compound content: 336 ± 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 *Can be overcoated with itself after 6 hours at 23°C.
Caution – contains isocyanate. Ensure adequate ventilation and wear air fed hoods when spraying. Consult Health & Safety data sheet.
Product will chalk, the degree of which is dependent on atmospheric conditions.
Low flash material – ventilate to keep solvent vapour levels below minimum explosive limit. Observe low flash regulations.