PROTEGA HT600

(formerly Temal 600)

DESCRIPTION

Heat resistant, silicone resin based, matt black and silver semi-gloss finishes.

PRODUCT FEATURES AND RECOMMENDED USES

- Suitable for all types of manifold and exhaust systems.
- Good heat resistance properties up to 500°C depending on quality.
- Good petrol and oil resistance.
- Good salt spray and humidity resistance.
- Intermittent heat resistance up to 600°C.
- Good adhesion over suitable zinc silicate coatings.

TECHNICAL DATA

Volume solids

3369 201 – 15 ± 2% (Silver); 3369 278 – 22 ± 2% (Matt Black) (ISO 3233)

Weight solids

3369 201 – 23 ± 2% (Silver); 3369 278 – 38 ± 2% (Matt Black).

Viscosity

45 ± 10 seconds F4 @ 25ºC depending on colour.

Specific gravity

3369 201: 0.91 – 0.93; 3369 278: 1.04 – 1.06.

Product code

3369 series (3369 201 – Silver Semi-gloss; 3369 278 – Matt Black).

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
10 µm	50 µm	20 m^2/l
15 µm	75 µm	13.3 m^2/l

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.
For stoving finishes, 20 – 30 microns DFT is recommended for maximum chemical resistance. (Do not exceed 30 microns dft).

Drying time

DFT 20 µm	**23 ºC**
Flash off	5 – 10 mins
Air dry	20 minutes touch dry, hard 4 hours @ 23°C.
Cure	30 minutes @ 120 – 150°C

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

Finish

Matt Black and Silver Semi-gloss.

Colours

Silver Semi-gloss (3369 201) and Matt Black (3369 278).

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APPLICATION DETAILS

Surface preparation

Preliminary cleaning: remove oil grease with a suitable detergent. Remove salt and other contaminants by fresh water cleaning and allow to dry (ISO 12944-4).
Pre-treatment improves adhesion and reduces corrosion under the paint film. The type of pre-treatment depends on the requirements for corrosion protection, e.g.

1. Zinc phosphate with Cr-Vl passivation.
2. Iron phosphate with demineralised water rinsing (insufficient rinsing can lead to the osmotic formation of bubbles).
3. Alkaline or neutral degreasing.
4. Clean steel.
5. May also be applied over blast cleaned steel coated with a suitable zinc silicate primer – please consult Protega Coatings for advice.

Application conditions

Only apply in conditions of good ventilation which should be maintained during drying. 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

Must be mixed thoroughly before use. Use a mechanical agitator for mixing.

Application

Suitable for spraying by conventional air spray when thinned to 20 – 30 seconds BSB4 @ 25^{o}C.

Thinner

950 Thinner.

Cleaning of equipment

Remove remaining paint from equipment, flush thoroughly with 950 Thinner until solvent appears uncontaminated.

FLASH POINT

22 – 32 ºC

STORAGE

Store in dry, cool conditions and protect from frost.

VOC

Volatile Organic Compound content: 717 $\pm$ 20 gm/lt (3369 201 Silver);
650 $\pm$ 20 gm/lt (3369 278 Matt Black)

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 exceed 30 microns dft or product performance may be impaired.

This information is given in good faith for the guidance of users but without warranty or liability. Any queries should be referred to our Technical Department. The above information, based on laboratory tests and practical experience, has been proved valid at the date marked on the product data sheet. When necessary verify the validity of the product data sheet. The quality of the product is ensured by our operational system, based on the requirements of the standards ISO 9001. As a manufacturer we cannot be responsible for any damages caused by using the product against our instructions or for inappropriate purposes. For professional use only.