PROTEGACLAD M50

DESCRIPTION

A two component polyurethane, high build, semi-gloss metallic topcoat, specifically formulated for the maintenance and repainting of architectural cladding.

PRODUCT FEATURES AND RECOMMENDED USES

- Recommended for the maintenance of Corus Colorcoat HP200 and HPS200 cladding.
- Suitable for PVF2, Silicone Polyester & Polyester Cladding when applied over ProtegaClad Bonding Coat.
- Suitable for urban, marine and industrial environments.
- Tough, durable finish combining abrasion resistance with outstanding colour and sheen retention.
- Good cleaning properties for ease of building maintenance.
- Cures at sub zero temperatures and has good climatic tolerance.
- Tolerant of slight surface moisture during application.
- High build and easy to apply by spray, brush or roller and in many instances a single coat is sufficient.
- Indefinitely recoatable with self or ProtegaClad 50.

TECHNICAL DATA

Volume solids

42 ± 2%. (ISO 3233)

Weight solids

55 ± 2%.

Specific gravity

1.06 – 1.08.

Product code

Paint	9 parts by volume	2900 series (RAL9006 – 2900 919)
Activator	1 parts by volume	4054 122
Composite		4828 series (RAL9006 – 4828 919)

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
25 µm	60 µm	16.8 m^2/l
60 µm	143 µm	7.0 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 50 µm		**+5°C**	**+10°C**	**+23°C**	**+35°C**
Dust Free		3 h	2 h	1 h	45 min
Hard Dry		9 h	6 h	3 h	2 h
Overcoating	min	24 h	24 h	12 h	8 h
	max	Indefinite* - see product notes			

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

Finish

Semi-gloss

Colours

RAL9006, plus selected metallic range made to order. (For non-metallic shades refer to ProtegaClad 50).

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APPLICATION DETAILS

Surface preparation

This product is a finish coat which should be applied over ProtegaClad Bonding Coat or suitably prepared sound Plastisol for recolour work.
Please refer to Protega Coatings for individual specifications.
For aged/degraded Plastisol, condition diagnosis and correct surface preparation are critical to performance. Please refer to Protega Coatings for advice.
Completely new and unweathered HP200 Plastisol must be wiped with white spirit (1050 Thinner) and allowed to dry prior to applying ProtegaClad M50.
New HPS 200 Plastisol must be wiped with xylene (1006 Thinner) and allowed to dry prior to applying ProtegaClad M50.
For PVF2, Silicone Polyester and other cladding types refer to Protega Coatings Ltd.
Surfaces should be clean, dry and free from all grease, oil and general contamination.

Application conditions

Only apply in conditions of good ventilation, which must be maintained during drying. Do not apply in windy conditions where wind is likely to carry spray mist. Do not apply when rain, mist, sleet, or snow are imminent. During application and drying time of the paint coating, the surface must be dry, the relative humidity should not exceed 85% and the surface temperature of steel should remain at least 3^{o}C above the dew point. Do not apply above 40^{o}C. Do not apply over standing or running water or ice.

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	Min 1600 p.s.i.	No	Yes – see note below	No	Yes - See note below
Tip Size	11 – 13 thou				

Brush – not generally suitable. Very careful brush application followed by laying-off by roller can produce acceptable results with experienced applicators. A test area should be done to confirm client acceptability for this method.
Roller – Use only good quality short hair roller types of suitable width to accommodate the profile and configuration. Up to 5% thinner may be required. **Protega strongly recommends that a feasibility test area is applied to confirm acceptable aesthetics are achievable.**
Airless spray – preferred method of application for best cosmetic results. Up to 5% thinner may be added to improve application properties if required. Select fan width to suit individual profile.
Conventional spray – considerable thinning may be required and film build may not be achieved.
Do not exceed the maximum stated dry film thickness. Certain pale shades and accent colours may require extra coats for complete obliteration.

Thinner

1737 Thinner

Cleaning of equipment

Remove remaining paint from equipment, flush thoroughly with 1737 Thinner until solvent appears uncontaminated.

Pot life

4 hours @ 23^{o}C.

FLASH POINT

22 - 32^{o}C

STORAGE

Store in dry, cool conditions and protect from frost.

VOC

Volatile Organic Compound content: 471 $\pm$ 20 gm/lt, 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

*Indefinitely overcoatable with self or ProtegaClad 50 when surface is clean and sound.
Caution – contains isocyanates. Ensure adequate ventilation and wear an air fed hood when spraying.