



Steelguard 2458

Single Pack Acrylic Finish

Product Data/ Application Instructions

- EPA compliant (1998) as a finish for Steelguard intumescent coatings
- High build
- Suitable for external exposure
- Single pack material
- Good colour retention

Typical Uses

Shop or site applied protective finish for Steelguard intumescent coatings.

Physical Data

Appearance when dry	semi gloss
Colour	RAL and BS colours*
Components	1
Curing mechanism	Solvent release
Volume solids	45 ± 2% (ISO 3233)

VOC**

EC SED 1999/13/EC	430 g/kg (532 g/l)
UK PG6/23(92) Appendix 3	499 g/l

Film Thickness (µm)	typical	minimum	maximum
Dry film thickness	75	50	125
Wet film thickness	167	111	278

(Wet film thicknesses quoted are theoretical for one airless spray coat)

Theoretical coverage

6.0 m ² /l (at typical dft)
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Specific gravity

1.23 kg/l

Flashpoint

(closed cup)	°C	°F
Steelguard 2458	24	75
Amercoat 65	24	75

Thinner

normally not necessary

Cleaner

Amercoat 65

*Reference is made to the basic colour collections of RAL and BS-4800.

** VOC figures are quoted according to both the EC directive 1999/13/EC which are theoretically calculated figures and the UK PG6/23(92) Appendix 3 which are practically determined figures.

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Surface Preparation

The surface must be dry and free of dust, salts, grease and other contaminants immediately before coating.

Mixing

Stir thoroughly before use until the product is uniform throughout.

Application Methods

AIRLESS SPRAY - Pressure at tip: 2800 psi (200 kg/cm²). Tip size 15-17 thou' (0.38-0.43mm).

BRUSH – apply evenly using a clean well loaded brush. Do not attempt to brush out or lay off the wet coating.

Overcoating

Can be overcoated with itself to increase the coating thickness. Certain strong colours may require more than one coat for full opacity.

Application Data

Substrate Steelguard FM 549/ Steelguard FM 550/ Steelguard FM560 coated steel

Application methods airless spray, brush

Environmental Conditions

Relative humidity: up to 90%.

Surface temperature: 5 - 30°C 41 – 86°F

The surface temperature must also be at least 3°C/5°F above dew point.

Potlife (at 20°C/68°F) not applicable

Drying Characteristics (°C/°F)	10/50	20/68	30/86
Touch dry (hours)	2	1	½
Hard dry.....	8	4	2
Full cure (days).....	10	7	4

Recoat or topcoat times (°C/°F)	10/50	20/68	30/86
Minimum.....	8	4	2
Maximum.....	-	-	-

NOTE: drying and curing times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions. Times are shorter at higher temperatures and longer at lower temperatures

Thinner normally not necessary

Cleaner Amercoat 65

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Application Procedure:

1. Flush equipment with recommended cleaner before use.
2. Stir to an even consistency with a power mixer.
3. Thinning is normally not required for airless spray
4. Stir during application to maintain uniformity of material. Apply a wet even coat in parallel passes. Overlap each pass 50% to avoid bare areas, pinholes or holidays.
5. Double coat all rough spots, sharp edges and corners, rivets, bolts, etc.
6. Application at 167 µm wet film thickness will normally provide 75 µm dry film.
7. Check thickness of dry coating with a non-destructive dry film thickness gauge, such as Mikrotest or Elcometer. If less than specified thickness, apply additional material as needed.
8. Small damaged or bare areas and random pinholes or holidays can be touched up by brush. Repair larger areas by spray.
9. In confined areas ventilate with clean air during application and drying until all solvents are removed. Temperature and humidity of ventilating air must be such that moisture condensation will not form on surface.
10. Clean all equipment with recommended cleaner immediately after use or at least at the end of each working day or shift.

Before using the product, read the label on the can and consult the material safety data sheet.

Shipping Data

Pack size	20 litres
Shipping weight	approx. 28 kg
Shelf life	1 year when stored indoors in unopened, original containers at 5 to 40°C (41-104°F).

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Safety

Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods.

Warranty

PPG warrants its products to be free from defects in material and workmanship. PPG's sole obligations and Buyer's exclusive remedy in connection with the products shall be limited, at PPG's option, to either replacement of products not conforming this warranty or credit to Buyer's account in the invoiced amount of the non-conforming products. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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All our transactions are subject to our Terms and Conditions of Sale.