

Steelguard 2451

Intumescent repair compound

Product Data/ Application Instructions

- Solvent based intumescent repair compound
- Up to 2 mm dry film thickness per coat
- Rapid job completion

Typical Uses

Intumescent filler for on site repair of Steelguard 551 and 561 intumescent coatings with application by trowel, knife or spatula to limited damaged areas where touch up with the original material is not practical.

Physical Data

Appearance when dry	matt	
Colour.....	white	
Components	1	
Curing mechanism	solvent release	
Volume solids	76 ± 3%	
VOC*		
EC SED 1999/13/EC.....	205 g/kg (286g/l)	
UK PG6/23(92) Appendix 3 ...	251 g/l	
Dry film thickness range.....	0.3 to 2.0mm	
Film thickness (in mm)	dry	wet
	0.4	0.53
	0.6	0.79
	0.8	1.05
	1.0	1.32
	1.5	1.97
	2.0	2.63
Theoretical coverage.....	0.76 m ² /l at 1mm dry film thickness	
Specific gravity	1.4 kg/l	
Flashpoint		
(closed cup)	°C	°F
Steelguard 2451	26	79
Amercoat 65	24	75

* VOC Figures are quoted according to 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

Cut out the Steelguard intumescent to one or two centimetres from the damaged area in all directions back to a sound edge (large enough to allow for suitable preparation). Ensure the exposed substrate is clean dry and free of contamination. If a topcoat has been applied this should be lightly sanded to remove from possible overlap areas. Where Steelguard intumescent has been applied directly to blast cleaned steel, any areas of breakdown should be abrasive blast cleaned to ISO 8501-1, Sa 2½ or where this is not practical manually clean to ISO 8501-1 St2 minimum. A suitable PPG approved primer such as Amerlock 2C or 400C should then be applied before degradation of the surface takes place. Where a primer has been originally used any areas of breakdown should be repaired in accordance with the original specification using a primer approved by PPG. If Steelguard 2451 is applied over other manufacturers primers, compatibility must be checked with your PPG representative prior to application.

Mixing

Stir by hand to homogenise the product before use

Application Data

Substrate primed steel (previously abrasive blasted)

Application methods trowel, knife or spatula

Environmental conditions

Relative humidity up to 85%
Surface temperature 5 - 40°C (41-104°F)
Air temperature 5 - 40°C (41-104°F)

Surface temperature must be at least 3°C/5°F above dew point to prevent moisture condensation on the surface.

Drying times at 2mm wet film and 20°C/68°F

touch dry 2 hours
handle dry 48 hours
fully cured 7 days

Drying time will vary considerably with the thickness applied and ambient conditions.

Overcoating times (minimum) at 20°C/68°F with itself and Steelguard 2458

up to 0.5 mm dft 6 hours
0.5-1.0 mm dft 12 hours
1.0-1.5 mm dft 18 hours
1.5-2.0 mm dft 24 hours

Potlife not applicable

Thinner Do not thin

Cleaner Amercoat 65

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Application Procedure

Apply by trowel, knife or spatula. The coating should be applied slightly proud of the surrounding area to allow for shrinkage on drying.

Overcoating

Any applied existing topcoat should be reinstated overlapping surrounding finished areas by 50mm. Typically Steelguard 2451 at a dry film thickness of 2mm should be allowed to cure for at least 24 hours at 20°C/68°F prior to overcoating with Steelguard 2458. For other finishes please check with your PPG Representative. Steelguard 2451 can be left externally without a topcoat for up to 12 months. During this period however Steelguard 2451 must be protected from pooling and running water, hot humid environments and immersed conditions.

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

Shipping Data

Pack size	2.5 litres
Shipping weight	approx. 5kg
Shelf life.....	1 year from shipment date when stored indoors in unopened, original containers at 5 to 40°C (41 to 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.

PPG makes no other warranties concerning the product. No other warranties, whether express, implied or statutory, such as warranties of merchantability or fitness particular purpose, shall apply. In no event shall PPG be liable for consequential or incidental damages.

Any recommendations or suggestion relating to the use of the products made by PPG, whether in its technical literature, or response to specific enquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyer's having requisite skill and know-how in the industry, and therefore it is Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

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To avoid any confusion that may arise through translation into other languages, the English version of the Product Data/Application Instructions will be the governing literature and must be referred to in case of deviations with product literature in other languages.

Condition of Sale

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

