SIGMAFAST HS ENAMEL

4 pages August 2012

Revision of November 2004

Description one component, modified acrylic based, air drying industrial enamel

PRINCIPAL CHARACTERISTICS - fast drying

good exterior durability

excellent gloss and colour retention

- VOC compliant as a finish

COLOURS AND GLOSS Wide range of colours, lead free: BS 4800, BS381C, RAL – gloss

BASIC DATA AT 20 °C (1 g/cm³ = 8.35 lb/US gal; 1 m²/l = 40.7 ft²/US gal)

Mass density 1.1 - 1.3 g/cm³ (depending on colour)

Volume solids $53\% \pm 2\%$

VOC (UK PG 6/23(92) appendix 3) max. 420 g/l (approx. 3.5 lb/gal)

(UK PG 6/23(92) Appendix 3)

Recommended dry film thickness 25 - 40 µm (can be achieved by a single coat application or using a "wet on

wet" technique)

Theoretical spreading rate 21.2 m²/l for 25 µm

13.3 m²/l for 40 μ m *

Touch dry after 40 min. at 20 °C

Overcoating interval see overcoating table *
Shelf life (cool and dry place) at least 12 months

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES can be applied on most sound clean paint systems or onto clean bare metal

which has been primed with a suitable primer application temperature range 5 - 30 °C

substrate temperature should be at least 3°C above dew point

maximum relative humidity during application and curing is 85%

INSTRUCTIONS FOR USE – stir well before use

the temperature of the paint should preferably be above 15°C, otherwise

extra thinner may be required to obtain application viscosity

- too much solvent results in reduced sag resistance

adequate ventilation must be maintained during application and curing

(please refer to sheets 1433 and 1434)

addition of thinner may increase the VOC value of the product to greater

than 420 g/litre

AIR SPRAY

Recommended thinner no extra thinner should be required but if necessary Thinner 21-06 can be

added to the mixed components

Volume of thinner 0 - 5%, depending on required thickness and application conditions

Nozzle orifice 1.5 - 2 mm

Nozzle pressure 0.3 - 0.4 MPa (= approx. 3 - 4 bar; 44 - 58 p.s.i.)





SIGMAFAST HS ENAMEL

August 2012

AIRLESS SPRAY

Recommended thinner

no extra thinner should be required but if necessary Thinner 21-06 can be

added to the mixed components

Volume of thinner 0 - 5%, depending on required thickness and application conditions

approx. 0.33 - 0.43 mm (= 0.013 - 0.017 in) 15 - 28 MPa (= approx. 2176 - 4061 p.s.i.)

BRUSH/ROLLER

Nozzle orifice Nozzle pressure

Recommended thinner

no extra thinner is required but if necessary Thinner 21-06 can be added if

desired to mixed components

Volume of thinner 0 - 5% if required

Overcoating table for SigmaFast HS Enamel for dft up to 25 µm

substrate temperature5°C20°C30°Cwith itselfminimum interval8 hours5 hours2 hoursmaximum interval30 hours24 hours16 hours

 wrinkling of the topcoat may occur if overcoating takes place between the times stated

Curing

Drying table

substrate temperature	touch dry	full cure	dry to handle
5°C	75 min.	24 hours	120 min.
20°C	40 min.	24 hours	60 min.
30°C	30 min.	12 hours	50 min.

Worldwide availability

Whilst it is always the aim of Sigma Coatings to supply the same product on a worldwide basis, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances.

Under these circumstances an alternative product data sheet is used.

REFERENCES

Conversion tabels	see information sheet 1410
Explanation to product data sheets	see information sheet 1411
Safety indications	see information sheet 1430
Safety in confined spaces and health safety	
Explosion hazard - toxic hazard	see information sheet 1431
Safe working in confined spaces	see information sheet 1433
Directives for ventilation practice	see information sheet 1434
Cleaning of steel and removal of rust	see information sheet 1490
Relative humidity - substrate temperature -	
air temperature	see information sheet 1650





DATA

SIGMAFAST HS ENAMEL

August 2012

SAFETY PRECAUTIONS

- for paint and recommended thinners see safety sheets 1430, 1431 and relevant material safety data sheets
- this is a solvent borne paint and care should be taken to avoid inhalation of spray mist or vapour as well as contact between the wet paint and exposed skin or eyes







SIGMAFAST HS ENAMEL

August 2012

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product.

THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG.

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 of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT.

The information in this data sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk.

PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

This data sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this data sheet is current prior to using the product. Current data sheets for all PPG Protective & Marine Coatings products are maintained at www.ppgpmc.com.

The English text of this data sheet shall prevail over any translation thereof.

PDS 0672UK



