

# SIGMATHERM 175

3 pages

May 2013  
Revision of October 2009

<b>Description</b>	heat resistant modified alkyd aluminium finish	
<b>PRINCIPAL CHARACTERISTICS</b>	<ul style="list-style-type: none"> <li>– heat resistant up to 175°C</li> <li>– high brilliancy</li> <li>– spray application improves the appearance</li> <li>– a minimum drying time of 3 days at 20°C should be allowed before exposure to heat</li> </ul>	
<b>COLOURS AND GLOSS</b>	aluminium – gloss	
<b>BASIC DATA AT 20°C</b>	(1 g/cm <sup>3</sup> = 8.35 lb/US gal; 1 m <sup>2</sup> /l = 40.7 ft <sup>2</sup> /US gal)	
Mass density	1.0 g/cm <sup>3</sup>	
Volume solids	47 ± 2%	
VOC (Supplied)	max. 411 g/kg (Directive 1999/13/EC, SED) max. 417 g/l (approx. 3.5 lb/gal)	
Recommended dry film thickness	25 µm per coat	
Theoretical spreading rate	18.8 m <sup>2</sup> /l for 25 µm	
Touch dry after	3 hours at 5 - 10°C 1 hour at 20°C	
Overcoating interval	min. 36 hours at 5 - 10°C, 16 hours at 20°C max. unlimited	
Shelf life (cool and dry place)	at least 12 months, longer storage period may affect the brilliancy	
<b>RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES</b>	<ul style="list-style-type: none"> <li>– previous coat; (e.g. Sigmarine 24) dry and free from any contamination</li> <li>– substrate temperature should be at least 3°C above dew point</li> </ul>	
<b>SYSTEM SPECIFICATION</b>	for heat resistant systems	system sheet: 3140
<b>INSTRUCTIONS FOR USE</b>	<ul style="list-style-type: none"> <li>– stir well before use</li> <li>– the temperature of the paint should preferably be above 15°C, otherwise extra thinner may be required to obtain application viscosity</li> <li>– too much solvent results in reduced sag resistance</li> <li>– adequate ventilation must be maintained during application and curing (please refer to sheets 1433 and 1434)</li> </ul>	
<b>AIR SPRAY</b>		
Recommended thinner	Thinner 20-05	
Volume of thinner	0 - 3%, depending on required thickness and application conditions	
Nozzle orifice	1.8 - 2 mm	
Nozzle pressure	0.3 - 0.4 MPa (= approx. 3 - 4 bar; 44 - 58 p.s.i.)	
<b>AIRLESS SPRAY</b>		
Recommended thinner	no thinner should be added	
Nozzle orifice	approx. 0.33 - 0.38 mm (= 0.013 - 0.015 in)	
Nozzle pressure	12 - 15 MPa (= approx. 120 - 150 bar; 1740 - 2176 p.s.i.)	

# SIGMATHERM 175

May 2013

## BRUSH/ROLLER

Recommended thinner no thinner should be added

## CLEANING SOLVENT

Thinner 20-05

## Worldwide availability

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, 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 labels	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
Specification for mineral abrasives	see information sheet 1491
Relative humidity - substrate temperature - air temperature	see information sheet 1650

## 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

# SIGMATHERM 175

May 2013

## 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 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 information (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 sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at [www.ppgpmc.com](http://www.ppgpmc.com). The English text of this sheet shall prevail over any translation thereof.

136663      PDS      7260  
aluminium      9000002200