## **NOVAGUARD 830**

	3 pages April 2009 Revision of November 2005		
DESCRIPTION	two component solvent free amine cured phenolic epoxy compound		
PRINCIPAL CHARACTERISTICS	<ul> <li>sprayable caulking to overlap the welding seams</li> <li>suitable caulking compound for use under SigmaGuard CSF 650 and Novaguard 840</li> <li>excellent chemical resistance against crude oil, unleaded gasolines and a wide range of petrochemicals and solvents</li> <li>can be applied by heavy duty single feed airless spray equipment (60:1)</li> <li>good visibility due to light colour</li> <li>reduced explosion risk and fire hazard</li> </ul>		
COLOURS AND GLOSS	cream - gloss		
BASIC DATA AT 20°C	(1 g/cm <sup>3</sup> = 8.25 lb/US gal; 1 m <sup>2</sup> /l = 40.7 ft <sup>2</sup> /US gal) (data for mixed product)		
Mass density Volume solids VOC (supplied) Recommended dry film thickness Touch dry after Overcoating interval Full cure after	1.4 g/cm <sup>3</sup> 100% max. 105 g/kg (Directive 1999/13/EC, SED) max. 144 g/l (approx. 1.2 lb/gal) 3500 - 5000 μm depending on system 6 hours min. 16 hours * max. 3 months * 5 days *		
	(data for components)		
Shelf life (cool and dry place)	at least 12 months		
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	<ul> <li>steel; blast cleaned to a minimum of ISO-Sa2½, blasting profile 50 - 100 µm</li> <li>steel with suitable holding primer (SigmaGuard 260 or SigmaCover 280) which must be dry, clean and free from any contamination</li> </ul>		
INSTRUCTIONS FOR USE	mixing ratio by volume: base to hardener 75 : 25		
	<ul> <li>when mixing the temperature of the base and hardener should be at least 20°C</li> <li>at lower temperature the viscosity will be too high for spray application</li> <li>no thinner should be added</li> </ul>		
Induction time	none		
Pot life	1 hour at 20°C * * see additional data		





DATA

**PPG** Protective & Marine Coatings

## NOVAGUARD 830

DATA

AIRLESS SPRAY	<ul> <li>heavy duty single feed airless spray equipment with a minimum of 60:1 pump ratio and suitable high pressure hoses</li> <li>in-line heating or insulated hoses may be necessary to avoid cooling down of paint in hoses at low air temperature</li> <li>length of hoses should be as short as possible</li> </ul>					
Recommended thinner	no thinner should be added					
Nozzle orifice Nozzle pressure	approx. 0.67 mm (= 0.026 in) at an angle of 30° à 40° at 20°C (paint temperature) min. 30 MPa (= approx. 350 bar; 5000 p.s.i.)					
	at 30°C (paint temperature) min. 25 MPa (= approx. 250 bar; 3500 p.s.i.)					
CLEANING SOLVENT	<ul> <li>Thinner 90-83</li> <li>all application equipment must be cleaned immediately after use</li> <li>paint inside the spraying equipment must be removed before the pot life time has been expired</li> </ul>					
SAFETY PRECAUTIONS	for paint and recommended thinners see safety sheets 1430, 1431 and relevant material safety data sheets					
ADDITIONAL DATA	Film thickness and spreading rate					
	theoretical spreading rate m <sup>2</sup> /I 0.3					
	dft in µm 3000					
	ch the required film					
	substrate temperature	10°C	20°C	30°C		
	minimum interval	30 hours	16 hours	12 hours		
	maximum interval	3 months	2 months	1 month		
<ul> <li>surface should be dry and free from any contamination</li> <li>Curing table</li> </ul>						

substrate temperature	ury to nanule	iuii cuie
10°C	30 hours	7 days
20°C	16 hours	5 days
30°C	10 hours	3 days

 although the paint is solvent free adequate ventilation must be maintained during application and curing (please refer to sheet 1433 and 1434)





## NOVAGUARD 830

DATA

Pot life			
20°C	60 min.		
30°C	45 min.	45 min.	
<ul> <li>due to exothermic reaction, temperature during and after mixing increase</li> </ul>			
Whilst it is always the aim of PPG Protective & Marine 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.			
Safety indications Safety in confined spaces Explosion hazard - toxic h Safe working in confined Directives for ventilation p	s and health safety hazard spaces oractice	see information sheet 1411 see information sheet 1430 see information sheet 1431 see information sheet 1433 see information sheet 1434 see information sheet 1490	
	<ul> <li>20°C</li> <li>30°C</li> <li>due to exothermic real increase</li> <li>Whilst it is always the aim the same product on a we sometimes necessary to Under these circumstance</li> <li>Explanation to product da Safety indications</li> <li>Safety indications</li> <li>Safety in confined spaces</li> <li>Explosion hazard - toxic h Safe working in confined Directives for ventilation production</li> </ul>	20°C60 min.30°C45 min due to exothermic reaction, temperature during increaseWhilst it is always the aim of PPG Protective & Mar the same product on a worldwide basis, slight modi sometimes necessary to comply with local or nation Under these circumstances an alternative product of Explanation to product data sheets	

## LIMITATION OF LIABILITY

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the Sigma Coatings products made by PPG Protective & Marine Coatings, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

PPG Protective & Marine Coatings has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. PPG Protective & Marine Coatings does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The data contained herein are liable to modification as a result of practical experience and continuous product development.

This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product.

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

7945

PDS

SIGMA COATINGS



