

**SIGMAGUARD 795****(SIGMAGUARD MAINTENANCE)**

4 pages

September 2005  
Revision of January 2003**DESCRIPTION**

two component high build amine adduct cured phenolic epoxy coating

**PRINCIPAL CHARACTERISTICS**

- to repair and maintain chemical resistant epoxy amine cured tanklinings like SigmaGuard 720 and Sigma Phenguard
- designed for spot repair
- excellent adhesion to abraded steel and coating surface
- well applicable at high dfts by brush/roller
- good chemical resistance
- easy to handle
- fast curing

**COLOURS AND GLOSS**

grey, green - eggshell

**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

1.8 g/cm<sup>3</sup>

Volume solids

75 ± 2%

VOC (supplied)

max. 155 g/kg (Directive 1999/13/EC, SED)  
max. 273 g/l (approx. 2.3 lb/gal)Recommended dry film  
thickness

100 - 150 µm (one full coat by brush/roller)

Theoretical spreading rate

7.5 m<sup>2</sup>/l for 100 µm, 5.0 m<sup>2</sup>/l for 150 µm

Touch dry after

2 hours (150 µm)

Overcoating interval

min. 14 hours \*

(data for components)

Shelf life (cool and dry place)

at least 12 months

Flash point

base 26°C, hardener 32°C

\* see additional data

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## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- cargo tank should be in a clean, dry, gas free condition prior to repairs
- previous coat; dry and free from any contamination
- protection of applied coating in way of tread areas in the tank to be provided by mats; all personnel entering tanks to wear soft footwear
- minor rust areas and coating defects to be prepared by rotating disc or power tool cleaned to SPSS-Pt3 standard or by vacuum blasting to ISO-Sa2½ standard
- overlap areas of repair to be roughened by means of rough pads
- solvent wiping of prepared areas necessary to remove any cargo trace prior to application of the SigmaGuard 795
- substrate must be perfectly dry before and during application of SigmaGuard 795
- substrate temperature must be above 10°C and at least 3°C above dew point during application and curing
- after repair carriage of aggressive cargoes, with notes 4, 7, 8 or 11 will require a full cure i.e. 3 months service with non aggressive cargoes or a hot cure

## SYSTEM SPECIFICATION

application of SigmaGuard 795 must be done in two coats by brush/roller to a total minimum dft of 200 µm

## INSTRUCTIONS FOR USE

mixing ratio by volume: base to hardener 85 : 15

- the temperature of the mixed base and hardener should preferably be above 10°C, otherwise extra solvent may be required to obtain application viscosity
- thinner is not recommended after mixing components

Induction time

none

Pot life

4 hours at 20°C \*  
\* see additional data

## BRUSH/ROLLER

Recommended thinner  
Volume of thinner

Sigma thinner 91-92  
0 - 3% (if necessary)

## CLEANING SOLVENT

Sigma thinner 90-53 preferable or  
Sigma thinner 91-92

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**SAFETY PRECAUTIONS**

for paint and recommended thinners see safety sheets 1430, 1431 and relevant material safety data sheets

this is a solvent based 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

**ADDITIONAL DATA**

***Overcoating table for SigmaGuard 795***

substrate temperature	10°C	15°C	20°C	25°C	30°C	40°C
minimum interval subsequent coating	28 hours	20 hours	14 hours	8 hours	6 hours	4 hours
maximum interval	28 days	25 days	21 days	17 days	14 days	7 days

- cargoes should not be transported between the application of the subsequent coatings

***Curing table***

substrate temperature	min. curing time before transport of cargoes without note 4, 7, 8 or 11 and ballast water or tank test with seawater
10°C	10 days
15°C	6 days
20°C	5 days
30°C	3 days
40°C	2 days

- minimum curing time before transport of cargoes with note 4, 7, 8 or 11: 3 months
- adequate ventilation must be maintained during application and curing (please refer to sheet 1433 and 1434)
- contact with water, within the curing period, will decrease the performance of the SigmaGuard 795 coating

***Pot life (at application viscosity)***

10°C	6 hours
20°C	4 hours
30°C	1.5 hour
40°C	0.5 hour

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**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**

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
Specification for mineral abrasives	see information sheet 1491

**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 products made by Sigma 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.

Sigma 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. Sigma 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.

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