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/cm³ = 8.25 lb/US gal; 1 m²/l = 40.7 ft²/US gal)
(data for mixed product)

Mass density	1.8 g/cm³
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 m²/l for 100 µm, 5.0 m²/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: Sigma thinner 91-92
Volume of thinner: 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

DS	7455
179113 green	4000001250
179114 grey	5000001250

SIGMA COATINGS