

New Guard Coatings Group

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Ace Coatings South



SIGMAGUARD™ 795

DESCRIPTION

Two-component, high-build, amine adduct-cured phenolic epoxy coating

PRINCIPAL CHARACTERISTICS

- For stripe coat application during new building application of PHENGUARD tank coating system
- To repair and maintain chemical resistant epoxy amine cured tank linings like SIGMAGUARD 720 and PHENGUARD
- Designed for stripe coating and 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

COLOR AND GLOSS LEVEL

- Gray, green, pink
- Eggshell

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.8 kg/l (15.0 lb/US gal)
Volume solids	75 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 155.0 g/kg max. 273.0 g/l (approx. 2.3 lb/US gal)
Recommended dry film thickness	75 - 150 µm (3.0 - 6.0 mils) for brush/roller
Theoretical spreading rate	7.5 m ² /l for 100 µm (301 ft ² /US gal for 4.0 mils)
Dry to touch	2 hours
Overcoating Interval	Minimum: 14 hours
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 months when stored cool and dry

Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Cargo tank should be in a clean, dry, gas-free condition prior to repairs
- Previous coat must be 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
- After repair carriage of aggressive cargoes, with notes 4, 7, 8 or 11 will require a full cure e.g. 3 months service with non-aggressive cargoes or a hot cure

Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 10°C (50°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point

SYSTEM SPECIFICATION

- Stripe coating: application of one coat of 75 µm (3.0 mils) preferably by brush
- Touch-up and repairs: application in two even coats to total minimum DFT of 200 µm (8.0 mils)

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 85:15

- The temperature of the mixed base and hardener should be above 10°C (50°F), otherwise extra thinner may be required to obtain application viscosity
- If required, thinner should be added after mixing the components

Induction time

None

Pot life

4 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

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Brush/roller

Recommended thinner

THINNER 91-92

Volume of thinner

0 – 3%

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

Spreading rate and film thickness

DFT	Theoretical spreading rate
100 µm (4.0 mils)	7.5 m ² /l (301 ft ² /US gal)
150 µm (6.0 mils)	5.0 m ² /l (201 ft ² /US gal)

Overcoating interval for DFT up to 150 µm (6.0 mils)

Overcoating with...	Interval	10°C (50°F)	15°C (59°F)	20°C (68°F)	25°C (77°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	28 hours	20 hours	14 hours	8 hours	6 hours	4 hours
	Maximum	28 days	25 days	21 days	17 days	14 days	7 days

Note: Cargoes should not be transported between the application of the subsequent coatings

Curing time for DFT up to 150 µm (6.0 mils)

Substrate temperature	Minimum curing time before transport of cargoes without note 4, 7, 8 or 11 and ballast water or tank test with sea water
10°C (50°F)	10 days
15°C (59°F)	6 days
20°C (68°F)	5 days
30°C (86°F)	3 days
40°C (104°F)	48 hours

Notes:

- 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 INFORMATION SHEETS 1433 and 1434)
- Contact with water, within the curing period, will decrease the performance of the SIGMAGUARD 795 coating

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Pot life (at application viscosity)	
Mixed product temperature	Pot life
10°C (50°F)	6 hours
20°C (68°F)	4 hours
30°C (86°F)	1.5 hours
40°C (104°F)	30 minutes

SAFETY PRECAUTIONS

- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes
- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets

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

• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431
• SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
• DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
• SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491

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