



# New Guard Coatings Group

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# 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 <sup>2</sup> /l for 100 µm (301 ft <sup>2</sup> /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

# SIGMAGUARD™ 795

## 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

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### 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

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## 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)

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## 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

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### Induction time

None

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### Pot life

4 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

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# SIGMAGUARD™ 795

## 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 <sup>2</sup> /l (301 ft <sup>2</sup> /US gal)
150 µm (6.0 mils)	5.0 m <sup>2</sup> /l (201 ft <sup>2</sup> /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

# SIGMAGUARD™ 795

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

## WARRANTY

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# SIGMAGUARD™ 795

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