

Hempadur Multi-Strength GF 3587A

Product characteristics

Description

Hempadur Multi-Strength GF 3587A is an amine-adduct cured epoxy coating reinforced with glass flakes. It is impact- and abrasion-resistant, and resists sea water, mineral oils, aliphatic hydrocarbons, and splashes from petrochemicals.

Recommended use

As a self-priming, high-build coating for areas subject to abrasion, or in highly corrosive environments such as splash zones, jetty pilings, and working decks.

Service temperature:

- Maximum, dry exposure only: 140°C [284°F].
- Maximum, in water (no temperature gradient): 60°C [140°F].

Features

- Suitable for early water exposure.
- Will continue to cure underwater.

Product safety

Flash point 95°F [35°C]

VOC content mixed product

Legislation	Value
EU	1.78 lb/US gal [213 g/L]
US (coatings)	1.78 lb/US gal [213 g/L]
US (regulatory)	1.78 lb/US gal [213 g/L]
Canada	1.78 lb/US gal [213 g/L]
China	1.78 lb/US gal [213 g/L]
Hong Kong	1.78 lb/US gal [213 g/L]
Korea	1.78 lb/US gal [213 g/L]

According to EPA Method 24. VOC values may vary with shade, please consult the Safety Data Sheet, section 9. According to specific legislation, see details in the Explanatory Notes available at Hempel website, hempel.com or at your local Hempel website.

Handling

Handle with care. Before and during use, observe safety labels on packaging and paint containers and follow all local and national safety regulations. Always consult Hempel's Safety Data Sheet for this product along with the Product Data Sheet.

For professional use only.

Product data

Product code

3587A

Product components

Base 3587N
Curing agent 9887A

Standard shade* / code

Mid Grey 11480 **
Grey 11480

Gloss

Glossy

Volume solids

87 ± 2%

Specific gravity

11 lb/US gal [1.3 kg/L]

Reference dry film thickness

14 mils [350 micron]

Glass flake version / code

Jet Black 19990
Black 19990

Gloss

Glossy

* Other shades are available, please contact your local Hempel representative.

** Colour stability may be affected by exposure to chemicals, high temperatures or inadequate ventilation.

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Volume solids

87 ± 2%

Specific gravity

11 lb/US gal [1.3 kg/L]

Reference dry film thickness

14 mils [350 micron]

Surface preparation

Cleanliness

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning.

New build:

- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).
- Remove dust, blast media and loose materials.

Maintenance and Repair

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning.
- Remove dust, blast media and loose materials.

Roughness

- Surface profile Medium (G) (ISO 8503-2).

Consult Hempel's separate Surface Preparation Guidelines for more details.

Application

Mixing ratio

Base 3587N : Curing agent 9887A
(4 : 1 by volume)

Stir well before use.

Thinner

Hempel's Thinner 08450

Cleaner

Hempel's Tool Cleaner 99610

Pot life

Product temperature	68°F [20°C]
Pot life	60 min

Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	3600 psi [Nozzle pressure: 250 bar] Nozzle orifice: 0.023-0.027"

Filter: surge tank filter and tip filter should be removed. Recommended pump ratio: minimum 45:1 pump output: minimum 3.17 gallons/12 liters per minute (theoretical). Spray hoses: maximum 150 ft/5 m, 3/8"/9.52 mm internal diameter, max. 10 ft/3 m, 1/4"/6.35 mm internal diameter. If longer spray hoses are necessary, up to 150 ft/50 m hose may be added. Output capacity of the pump must be increased. The ratio must be raised to 60:1. Larger spray nozzles will require increased pump size. A reversible nozzle is recommended. Spray data are indicative and subject to adjustment. Pressure is for a material temperature of 68°F [20°C].

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Film thickness

Specification range	Low	High	Recommended
Dry film thickness	14 mils [350 micron]	20 mils [500 micron]	14 mils [350 micron]
Wet film thickness	16 mils [402 micron]	23 mils [575 micron]	16 mils [402 micron]
Theoretical spreading rate	102 sq ft/US gal [2.5 m ² /L]	69 sq ft/US gal [1.7 m ² /L]	102 sq ft/US gal [2.5 m ² /L]

Product may be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate, drying and curing time and overcoating interval. For best performance, avoid excessive film thickness.

Application conditions

- To avoid condensation, apply on a clean and dry surface with a temperature that is at least 5°F [3°C] above the dew point.
- Provide adequate ventilation during application and drying.
- Surface temperature must be above 41°F [5°C] during application and curing.
- Temperature of product must be above 59°F [15°C] during application.
- Material temperature should be between 20°C [68°F] and 30°C [86°F].

Drying and overcoating

Product compatibility

- Previous coat: None or according to Hempel's specification.
- Subsequent coat: None or according to Hempel's specification.

Drying time

Surface temperature		68°F [20°C]
Touch dry	hours	6
Fully cured	days	7

Determined for dry film thickness 14 mils [350 micron] at standard conditions, see Hempel's Explanatory Notes for details.

Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.
- Condensation on the freshly applied coating should be avoided.

Overcoating details

- The surface must be clean before overcoating.

Other remarks

- Hempel's Specification supersedes any recommendations given in the Product Data Sheets.

Storage

Shelf life

Ambient temperature	77°F [25°C]
Base	24 months
Curing agent	24 months

Shelf life from date of production, when stored in original, unopened containers. Thereafter, the product quality must be re-inspected. Always check the best before date or expiry date on the label.

Storage conditions

- The product must be stored in accordance with Safety Data Sheet, label and local regulations. Keep the containers in a dry, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Carbon Footprint

Dry film thickness	1 mil	1 µm
GWP (Global Warming Potential)	0.037 lb CO ₂ e/ft ²	7 g CO ₂ e/m ²

The carbon footprint is for 1 square meter / square foot of surface area with a dry film thickness of 1 micron / mil.

The scope includes raw materials, in-bound transport to the Hempel factory, Hempel manufacturing processes, and any Volatile Organic Compounds emitted during and after the application of the product.

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It is calculated based on the standard shade defined in this PDS.
Values may vary with shade.

Additional documents

Additional information is available at the Hempel website
<https://www.hempel.com/service-and-support/technical-guidelines>
or at your local Hempel website:

- Explanatory Notes explaining the fields in this Product Data Sheet.
- Surface Preparation Guidelines.
- Application Guidelines for different application methods.
- General Application Guidelines

This Product Data Sheet ("PDS") relates to the supplied product ("Product") and is subject to updating from time-to-time. Accordingly, the buyer/applicator should have regard to the PDS supplied together with the relevant batch of the Product (and not an earlier version). In addition to the PDS, the buyer/applicator may receive some or all of the following specifications, statements and/or guidelines as listed below or as are available from the Hempel website under 'Products' at www.hempel.com (the "Additional documents"):

No.	Document description	Location/comments
1.	Technical Statement	One-off specific advice provided on request for specific projects
2.	Specification	Only issued for specific projects
3.	PDS	This document
4.	Explanatory Notes to the PDS	Available at www.hempel.com and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at www.hempel.com
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at www.hempel.com

In the event of a conflict of information between the PDS and the Additional documents, the order of priority of information shall be in the order as set out above. In such event you should also contact your representative at Hempel for clarification. Furthermore, the buyer/applicator must have full regard to the relevant Safety Data Sheet provided with each Product and which can also be downloaded from www.hempel.com.

Hempel shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements set out in the relevant PDS and the Additional Documents. The information and terms of this disclaimer apply to this PDS, the Additional documents and any other documents supplied by Hempel in respect of the Product. In addition, the Product is supplied and all technical assistance is given subject to Hempel's General Conditions of Sale, Delivery and Service, unless otherwise expressly agreed in writing.