Hempel's Galvosil Fibre 15750

Product characteristics

Description
Hempel's Galvosil Fibre 15750 is a solvent-borne, self-curing, fibre reinforced, inorganic zinc silicate primer with outstanding resistance against weathering and abrasion. Provides expanded tolerance to high film thicknesses and offers excellent galvanic protection of local mechanical damage.

The product is in compliance with the compositional requirements of SSPC Paint 20 level 2 and ISO 12944 Part 5, 2018. In full compliance with ISO 3549 and ASTM D520 type II.

Recommended use
Hempel's Galvosil Fibre 15750 is recommended as a general purpose, heavy-duty, rust-preventing primer for newbuild and maintenance. Suitable for structural steel and piping. Recommended for a wide range of atmospheric corrosivity environments up to extreme (offshore).
Can be used as a single, complete coating for long-term protection of steel exposed to moderately to severely corrosive environment and abrasion. Especially recommended for steelwork where local areas (e.g. corners) can be expected to have high film thickness (up to a dry film thickness of 200 microns).

Service temperature:
- Without topcoat: maximum, dry, atmospheric exposure: 500°C [932°F].
- With a suitable topcoat: maximum, dry, atmospheric exposure: 500°C [932°F], peak: 600°C [1112°F].
- Wet service temperatures: Please consult the Chemical protection guide at hempel.com.

Product safety

Flash point 14°C [57°F]

VOC content mixed product

Legislation	Value
EU	458 g/L [3.82 lb/US gal]
US (coatings)	541 g/L [4.51 lb/US gal]
US (regulatory)	551 g/L [4.60 lb/US gal]
China	541 g/L [4.51 lb/US gal]

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
15750

Product components
Base 15759
Curing agent 97170

Standard shade / code
Grey 19840

Gloss
Flat

Volume solids
62 ± 2%

Specific gravity
2.4 kg/L [20 lb/US gal]

Reference dry film thickness
75 micron [3.0 mils]

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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
- According to Hempel's Specification.

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

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

Application

Mixing ratio
Base 15759 : Curing agent 97170
(9.2 : 15 by weight)

Products containing floating or settling particles/pigments need to be continuosly stirred during application. This is especially important in case of heavy thinning.

Thinner
Hempel's Thinner 08700

Cleaner
Hempel's Thinner 08700

Pot life

Product temperature	10°C [50°F]	20°C [68°F]	25°C [77°F]
Pot life	8 hours	4 hours	3 hours

Application method

Tool	Thinning max vol.	Application parameters
Airless spray	30%	Nozzle pressure: 100 bar [1500 psi] Nozzle orifice: 0.019-0.023"
Air spray	35%	Not Applicable.
Brush	10%	Not Applicable.

To minimise dry spray at high temperatures, extra thinning may be necessary. Spray data are indicative and subject to adjustment. Pressure is for a material temperature of 20°C [68°F].

Film thickness

Specification range	Low	High	Recommended
Dry film thickness	40 micron [1.6 mils]	125 micron [4.9 mils]	75 micron [3.0 mils]
Wet film thickness	60 micron [2.5 mils]	200 micron [8 mils]	120 micron [5 mils]
Theoretical spreading rate	16 m²/L [650 sq ft/US gal]	5 m²/L [200 sq ft/US gal]	8.3 m²/L [340 sq ft/US gal]

Overthickness should be closely controlled and never locally exceed 250 micron [10 mils] DFT. On irregular surfaces it is recommended to employ special care in avoiding over application.

Application conditions
- To avoid condensation, apply on a clean and dry surface with a temperature that is at least 3°C [5°F] above the dew point.

Application remarks
- Consult Hempel's Application Guidelines and Instructions for more details.

Drying and overcoating

Product compatibility
- Previous coat: None.
- Subsequent coat: According to Hempel's Specification.

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Drying time

Surface temperature		0°C [32°F]	10°C [50°F]	20°C [68°F]	30°C [86°F]
Touch dry	min	90	40	15	6

Determined for dry film thickness 75 micron [3.0 mils] at standard conditions, see Hempel's Explanatory Notes for details. The drying times of moisture curing products will depend on the relative humidity, therefore drying times in the field could vary.

Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.

Overcoating details

- Remove zinc salts or other contamination before overcoating.
- Flash-coat technique is recommended when overcoating Galvosil qualities.
- Inorganic zinc silicates must be fully cured before overcoating.
- The surface must be dry and clean prior to application.

Storage

Shelf life

Ambient temperature	25°C [77°F]	35°C [95°F]
Base	6 months	6 months
Curing agent	36 months	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

- Product must be stored according to local legislation, at maximum 40°C [104°F], without direct sunlight and protected from rain and snow.

Additional documents

Additional information is available at the Hempel website hempel.com 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