

Hempel's Fast Dry Primer 120SG

Product characteristics

Description

Hempel's Fast Dry Primer 120SG is a single component, urethane-modified alkyd based, quick drying primer.

Recommended use

General-purpose primer or intermediate for the protection of steel in mild to medium atmospheric corrosive environments.

Service temperature:

- Maximum, dry exposure only: 120°C [248°F].

Product safety

Flash point 28°C [82°F]

VOC content

Legislation	Value
EU	399 g/L [3.33 lb/US gal]
US (coatings)	399 g/L [3.33 lb/US gal]
US (regulatory)	399 g/L [3.33 lb/US gal]
Canada	399 g/L [3.33 lb/US gal]
China	399 g/L [3.33 lb/US gal]
Hong Kong	399 g/L [3.33 lb/US gal]
Korea	399 g/L [3.33 lb/US gal]

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

120SG

Standard shade* / code

Brownish red 50630

Gloss

Flat

Volume solids

52 ± 2%

Specific gravity

1.4 kg/L [12 lb/US gal]

Reference dry film thickness

50 micron [2.0 mils]

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:

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Clean thoroughly by hand or power tool to St 3 (ISO 8501-1) / SP 3 (SSPC). Avoid polishing.

Maintenance and Repair

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Clean thoroughly by hand or power tool to St 2 (ISO 8501-1) / SP 2 (SSPC). Avoid polishing.

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

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Application

Thinner

Hempel's Thinner 08080
Hempel's Thinner 08230

Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.018-0.021"
Air spray	15%	Not Applicable.
Brush	5%	Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. 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]	80 micron [3.1 mils]	50 micron [2.0 mils]
Wet film thickness	75 micron [3 mils]	150 micron [6 mils]	100 micron [4 mils]
Theoretical spreading rate	13 m ² /L [530 sq ft/US gal]	6.5 m ² /L [260 sq ft/US gal]	10 m ² /L [410 sq ft/US gal]

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 3°C [5°F] above the dew point.

Application remarks

- Stir well before use.
- Shades/Colours with the codes 1V610 and 4V710 contain Zinc phosphate

Drying and overcoating

Product compatibility

- Previous coat: None.
- Subsequent coat: According to Hempel's Specification.
Recommended product is: Hempalin Enamel 52140

Drying time

Surface temperature	20°C [68°F]	
Surface dry	min	60
Through dry	min	120

Determined for dry film thickness 50 micron [2.0 mils] 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.

Overcoating details

- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
- The surface must be dry and clean prior to application.

Other remarks

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

Storage

Shelf life

Ambient temperature	25°C [77°F]
Product	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.

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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

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.