

Hempaprime Immerse 900

Product characteristics

Description

Hempaprime Immerse 900 is a two-component, pure epoxy universal primer, which cures to a smooth, hard and tough coating with excellent resistance to seawater and abrasion.

Recommended use

As a universal pure epoxy and self-primed high performance coating system for atmospheric or in-water service. Hempaprime Immerse 900 is intended for application with Hempaguard MaX system where high productivity and high smoothness are required.

Service temperature:

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

Features

- Excellent anticorrosive and very good mechanical properties.
- Short drying time.
- Low roughness

Product safety

Flash point 35°C [95°F]

VOC content mixed product

Legislation	Value
EU	252 g/L [2.10 lb/US gal]
US (coatings)	252 g/L [2.10 lb/US gal]
US (regulatory)	252 g/L [2.10 lb/US gal]
China	252 g/L [2.10 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

17890

Product components

Base 17899
Curing Agent 97082

Standard shade / code

Aluminium red 19531 *

Gloss

Semi-flat

Volume solids

73 ± 2%

Specific gravity

1.4 kg/L [11 lb/US gal]

Reference dry film thickness

200 micron [7.9 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:

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

Maintenance and Repair

- Abrasive blasting to min. Sa 2 (ISO 8501-1) / SP 6 (SSPC).
- Water jetting to min. Wa 2 (ISO 8501-4).
- Flash rust degree of maximum FR L (ISO 8501-4).
- Remove dust, blast media and loose materials.

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Roughness

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

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

Application

Mixing ratio

Base 17899 : Curing Agent 97082
(4 : 1 by volume)

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

Thinner

Hempel's Thinner 08450

Cleaner

Hempel's Tool Cleaner 99610

Pot life

Product temperature	15°C [59°F]	20°C [68°F]	25°C [77°F]
Pot life	2 hours	1 hour	¾ hours
Pot life (spray)	-	60 min	-
Pot life (brush)	-	90 min	-

Application method

Tool	Application parameters
Airless spray	Nozzle pressure: 250 bar [3600 psi] Nozzle orifice: 0.021-0.025"
Brush	Not Applicable.
Roller	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	100 micron [3.9 mils]	225 micron [8.9 mils]	200 micron [7.9 mils]
Wet film thickness	130 micron [5 mils]	310 micron [12 mils]	275 micron [11 mils]
Theoretical spreading rate	7.3 m ² /L [300 sq ft/US gal]	3.2 m ² /L [130 sq ft/US gal]	3.6 m ² /L [150 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.
- Surface temperature must be above -10°C [14°F] during application and curing.

Relative Humidity:

- Relative humidity must be below 85% during curing.

Drying and overcoating

Product compatibility

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

Drying time

Surface temperature		20°C [68°F]	5°C [41°F]
Touch dry	hours	3	8
Surface dry	hours	3	-

Determined for dry film thickness 200 micron [7.9 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.

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Overcoating details

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

Other remarks

- Epoxy coats have an inherent tendency of chalking in outdoor exposure. This does not affect the performance of the coating.
- Hempel's Specification supersedes any recommendations given in the Product Data Sheets.

Storage

Shelf life

Ambient temperature	25°C [77°F]
Base	36 months
Curing Agent	12 months

Shelf life from date of production, when stored in original, unopened containers. Thereafter, the product quality must be re-inspected. Storage at elevated temperatures may reduce shelf life. For advice, please consult Hempel.

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 for Product Data Sheet.
- 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.