

## **HEMPEL'S SHOPPRIMER ZS 15890**

15890: BASE 15899: HEMPEL'S LIQUID 99751

HEMPEL'S SHOPPRIMER ZS 15890 is a two-component, solvent-borne zinc ethyl silicate shopprimer, Description:

designed for automatic spray application. Especially suited, where welding (MIG/MAG) and gas-cutting

properties are of importance.

For short to medium-term protection of abrasive blast cleaned steel plates and other structural steel Recommended use:

during the storage, fabrication, and construction periods.

Certificates/Approvals: Approved as a welding primer by Lloyd's Register of Shipping.

Approved as a welding primer by Det Norske Veritas Approved as a welding primer by Germanischer Lloyd. Approved as a welding primer by Bureau Veritas.

Approved as a welding primer by RINA.

Approved as a welding primer by Maritime Register of Shipping - Russia.

Complying with IMO MSC 245(82) as shop primer for ballast tank coating systems. Certified by major classification societies. Contact your local Hempel representative for more info and specific certificates.

Part of Group Assortment. Local availability subject to confirmation. Availability:

PHYSICAL CONSTANTS:

Shade nos/Colours: 19890\* / Reddish grey

Flat Finish: Volume solids, %:  $28 \pm 1$ 

18.7 m<sup>2</sup>/l [749.9 sq.ft./US gallon] - 15 micron/0.6 mils Theoretical spreading rate:

Flash point: 22 °C [71.6 °F]

1.3 kg/litre [11.1 lbs/US gallon] Specific gravity: Dry to handle: 4 - 5 minute(s) 20°C/68°F

Fully cured: 72 approx. hour(s) 20°C/68°F (75% RH)

VOC content: 652 g/l [5.4 lbs/US gallon]

1 Year (25°C/77°F) from time of production. Shelf Life:

Shelf life is dependent on storage temperature. Shelf life is reduced at storage temperatures above

25°C/77°F. Do not store above 40°C/104°F or below 5°C/40°F.

Shelf life is exceeded if the liquid is gelled or if the mixed product forms gels before application.

\*other shades according to assortment list.

The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.

**APPLICATION DETAILS:** 

Version; mixed product: 15890

BASE 15899: HEMPEL'S LIQUID 99751 Mixing ratio:

2:3 By volume

Application method: Airless spray / Air spray / Brush (touch up)

08570 or 08700 (30%) / 08700 (30%) / 08570 or 08700 (15%) Thinner (max.vol.):

According to separate APPLICATION INSTRUCTIONS

24 hour(s) 20°C/68°F (Closed container, constant stirring) see REMARKS overleaf. Pot life:

0.019 - 0.023 Nozzle orifice: 80 bar [1160 psi] Nozzle pressure:

(Airless spray data are indicative and subject to adjustment)

Cleaning of tools: HEMPEL'S THINNER 08700 or 08700 Indicated film thickness, dry: 15 micron [0.6 mils] see REMARKS overleaf.

Not relevant Indicated film thickness, wet:

According to separate APPLICATION Recoat interval, min:

INSTRUCTIONS

Recoat interval, max: According to separate APPLICATION

INSTRUČTIONS

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, Safety:

consult HEMPEL Safety Data Sheets and follow all local or national safety regulations.



## **HEMPEL'S SHOPPRIMER ZS 15890**

SURFACE PREPARATION: Remove oil and grease with suitable detergent. Abrasive blasting to minimum Sa 21/2 (ISO 8501-

1:1988) with a surface profile equivalent to Rugotest No. 3, min. N9a, Keane-Tator Comparator, 2 mils

segments or ISO Comparator Medium (G,S). For special purposes grit blasting is necessary.

**APPLICATION CONDITIONS:** 

The surface must be completely clean and dry at the time of application and its temperature must be

above the dew point to avoid condensation.

Minimum steel temperature: 0°C/32°F. Maximum steel temperature approximately: 55°C/131°F. Minimum temperature for curing is: 0°C/32°F. Minimum relative humidity: 30%. Relative humidity

preferably above: 65%. See separate APPLICATION INSTRUCTIONS

SUBSEQUENT COAT:

REMARKS:
Application(s)

According to specification.

For steel to be used for ballast tanks, IMO Resolution MSC.215(82) requires that the contamination with

water soluble salts measured according to ISO 8502-9 must not exceed a conductivity equivalent to 50 mg/m² sodium chloride. The dust quantity rating assessed according to ISO 8502-3 must not exceed

rating "1" for dust size classes "3", "4" or "5".

If shelf life is exceeded, it is usually possible to use the zinc paste (BASE), if any settling can be remixed. The liquid may be used provided it shows no signs of turbidity, but pot life will be very much shortened, see application(s). In any case, possible surpassing of storage time will be of 1-2 months

maximum (20°C/68°F) for the liquid.

The pot life may be gradually reduced to 8 hours (20°C/68°F) as the liquid approaches the end of its

shelf life, assuming that it is stored under favourable conditions.

Film thicknesses/thinning: For this shopprimer, the indicated dry film thickness means the thickness measured on a smooth test

panel and when the shopprimer is being applied to abrasive blasted substrate with a roughness of approximately: Rz 60 micron. A higher roughness may require upwards adjustment of the dry film

thickness and correspondingly reduce the theoretical spreading rate.

Actual specified dry film thickness may depend on welding requirements, exposure conditions and required protection time. Dry film thickness range with suitable thinning is: 10-25 micron/ 0.4-1 mils. The product should be applied in a uniform film thickness. Avoid dry spray and exaggerated film

hickness.

Curing agent: Curing time is prolonged at relative humidity below: 75%.

Recoating intervals: No maximum recoat interval for adhesion, but dictated by gradual breakdown and damage during

exposure and fabrication. Regarding treatment before recoating, please consult APPLICATION

INSTRUCTIONS.

Nota: HEMPEL'S SHOPPRIMER ZS 15890 For professional use only.

ISSUED BY: HEMPEL A/S 1589019890

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" available on www.hempel.com. Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

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