

HEMPADUR* SPRAY-GUARD* 35490/ HEMPADUR* SPRAY-GUARD* 35493

High temperatures: 35490 with CURING AGENT 95690
Medium temperatures: 35493 with CURING AGENT 95790

Description: HEMPADUR SPRAY-GUARD 3549 is a solvent-free, two-component, epoxy coating. It cures to a hard, abrasion-resistant, protective coating. It can be spray applied in one coat at a minimum film thickness of 2.5 mm (100 mils).

Recommended use: As a heavy duty coating on steel and concrete exposed to severe corrosive conditions and/or abrasion such as splashzones, decks and ramps. Colour retention will be of minor importance.
CURING AGENT 95690 suited for application at temperatures above 20°C/68°F.
CURING AGENT 95790 suited for application at temperatures between 10°C/50°F and 20°C/68°F.

Service temperatures:

	Dry:	In water (no temperature gradient):
Maximum:	140°C/284°F	35°C/95°F
See REMARKS overleaf.		

Availability: Subject to confirmation.

PHYSICAL CONSTANTS:

Colours/Shade nos:	Grey-green/41690
Finish:	Semi-gloss, textured
Volume solids:	100%
Theoretical spreading rate:	0.4 m ² /litre - 2.5 mm 16.0 sq.ft./US gallon - 100 mils
Flash point:	> 60°C/140°F
Specific gravity:	1.9 kg/litre - 15.8 lbs/US gallon
Surface dry:	See REMARKS overleaf
Dry to touch:	See REMARKS overleaf
Fully cured:	See REMARKS overleaf
V.O.C.:	0 g/litre - 0 lbs/US gallon

*The physical constants are subject to normal manufacturing tolerances.
Further reference is made to "Explanatory Notes" in the Hempel Book.*

APPLICATION DETAILS:

	35490	35493
Mixing ratio:	Base 35499 : Curing agent 95690 5.6 : 1.0 by volume; 23 : 2 by weight	Base 35499 : Curing agent 95790 5.7 : 1.0 by volume; 23 : 2.75 by weight
Application method:	Spray (<i>small areas: notched trowel</i>) (Consult separate Application Instructions)	Spray (<i>small areas: notched trowel</i>) (Consult separate Application Instructions)
Thinner (max. vol.):	Do not dilute	Do not dilute
Pot life:	See REMARKS overleaf	See REMARKS overleaf
Recommended equipment:	Air spray by worm-pump equipment, by hose pump or by modified piston pump. (Consult separate Application Instructions) For small areas Quick Spray Hopper Gun.	
Cleaning of tools:	HEMPEL'S TOOL CLEANER 9961.	
Indicated film thickness, dry:	2.5 mm/100 mils	
Indicated film thickness, wet:	2.5 mm/100 mils	
Recoating interval, min:	See REMARKS overleaf	
Recoating interval, max:	See REMARKS overleaf	

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SURFACE

PREPARATION:

Steel: Abrasive blasting to Sa 2½, SSPC-SP-10 or Sa 3, SSPC-SP-5 depending on area of use. Surface profile corresponding to Rugotest No. 3 BN11 a, Keane-Tator Comparator 5.5 G/S, or ISO Comparator, Coarse (G). Oil and grease must be removed with suitable detergent, salt and other contaminants by (high pressure) fresh water cleaning prior to blasting. After blasting clean the surface carefully from abrasives and dust.

Concrete: Remove slip agent and other possible contaminants by emulsion cleaning followed by high pressure hosing with fresh water. Remove scum layer and loose matter to a hard, rough and uniform surface, preferably by abrasive blasting, possibly by other mechanical treatment or acid etching. Seal surface with suitable sealer, e.g. HEMPADUR SEALER 0597 (furthermore, see Product Data Sheet for 0597). Further information about surface preparation to be found in separate Application Instructions for 3549.

APPLICATION CONDITIONS:

Use only on a clean and dry surface with a temperature above the dew point to avoid condensation when application and curing can proceed as listed:

Cured with	Curing agent 95690	Curing agent 95790
Minimum appl temperature of substrate:	20°C/68°F	10°C/50°F
Curing will proceed down to:	10°C/50°F	2°C/36°F
Fully cured:	7 days at 20°C/68°F	7 days at 10°C/50°F
Surface dry (ISO 1517):	about 3 hrs at 20°C/68°F	about 3 hrs at 10°C/50°F
Dry to touch:	about 8 hrs at 20°C/68°F	about 8 hrs at 10°C/50°F
Dry to handle:	about 3 days at 20°C/68°F	about 3 days at 10°C/50°F

To facilitate stirring and mixing, the material temperature should in no case be less than approx 20°C/68°F.

PRECEDING COAT:

None, HEMPADUR SEALER 0597, HEMPADUR 1559, or according to specification.

SUBSEQUENT COAT:

None, or HEMPADUR qualities according to specification. In case a "smoothing" of the surface is required, HEMPADUR MULTI-STRENGTH 4575 may be used.

REMARKS:

Weathering:

Service temperatures:

A tendency to chalk in outdoor exposure does not detract from the protective properties.

Even though the service temperature is kept below the specified maximum, it should be noted that the higher the temperature, the more sensitive the paint will be to mechanical and/or chemical exposure. Combined thermal/mechanical and/or chemical exposure may therefore increase the risk of damage.

Film thicknesses:

May be specified and applied in higher film thicknesses than indicated. **Not recommended below 2.5 mm /100 mils, since HEMPADUR SPRAY-GUARD 3549 will not form a close and porefree film at lower film thicknesses.**

Pot life:

Material temperature	30°C/86°F	20°C/68°F	10°C/50°F
With curing agent 95690	30 minutes	1 hour	Not relevant
With curing agent 95790	Not relevant	30 minutes	1 hour

Recoating interval:

Substrate temperature		30°C/86°F	20°C/68°F	10°C/50°F
With curing agent 95690	Min Max	4 hours 2 weeks	8 hours 1 month	Not relevant 2 months
With curing agent 95790	Min Max	Not relevant 2 weeks	4 hours 1 month	8 hours 2 months

In the case of contamination before recoating, very careful cleaning is a must.

Repair work should include recoating of a part of the surrounding, intact, original paint, which must be cleaned and roughened prior to application.

For further details consult separate Application Instructions.

Note:

SAFETY:

HEMPADUR SPRAY-GUARD 3549 is for professional use only.

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Material Safety Data Sheets and follow all local or national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance if swallowed. Avoid inhalation of possible solvent vapours or paint mist, as well as paint contact with skin and eyes. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.

This Product Data Sheet supersedes those previously issued. For definition and scope, see explanatory notes to applicable Product Data Sheets. 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. The Products are supplied and all technical assistance is given subject to HEMPEL's GENERAL CONDITIONS OF SALES, DELIVERY AND SERVICE, unless otherwise expressly agreed in writing. The Manufacturer and Seller disclaim, and Buyer and/or User waive all claims involving, any liability, including but not limited to negligence, except as expressed in said GENERAL CONDITIONS for all results, injury or direct or consequential losses or damages arising from the use of the Products as recommended above, on the overleaf or otherwise.

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