HEMPADUR* 17081/ HEMPADUR* 17082

High temperatures: 17081 with CURING AGENT 97820
Low to medium temperatures: 17082 with CURING AGENT 97430

Description: HEMPADUR 1708 is a self-priming, two-component polyamide adduct cured epoxy paint. It cures to a very hard-wearing coating with good resistance to seawater, crude and fuel oils.

Recommended use: Long-term protection of steel for ballast water tanks and similar. Suitable for application at temperatures down to -10°C/15°F or where relative short drying times are required.

Service temperatures:	Dry:	In oil:	In water (max temp. gradient 10°C/18°F):
Maximum:	140°C/284°F	75°C/167°F	40°C/104°F

Approvals: After testing at Marintek, a subsidiary of Sintef in Norway, the system HEMPADUR 1708 in two coats was given the highest classification, B1.
Accepted by Lloyd's Register of Shipping as a provisionally recognized corrosion control coating.
Tested for non-contamination of grain cargo at the Newcastle Occupational Health Agency, Great Britain.

Availability: Subject to confirmation.

PHYSICAL CONSTANTS:

Version; mixed product:	**17081**	**17082**
Colours/Shade nos.:	Grey/12170*	Grey/12170*
Finish:	Semi-gloss	Semi-gloss
Volume solids:	60%	60%
Theoretical spreading rate:	4.0 m²/litre - 150 micron 160 sq.ft.US gallon - 6 mils	4.0 m²/litre - 150 micron 160 sq.ft.US gallon - 6 mils
Flash point:	25°C/77°F	25°C/77°F
Specific gravity:	1.3 kg/litre - 10.8 lbs/US gallon	1.3 kg/litre - 10.8 lbs/US gallon
Dry to touch:	See REMARKS overleaf	See REMARKS overleaf
Fully cured:	See REMARKS overleaf	See REMARKS overleaf
V.O.C.:	383 g/litre - 3.2 lbs/US gallon	383 g/litre - 3.2 lbs/US gallon

**Another shade: cream 20320 according to assortment list.*

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

APPLICATION DETAILS:

	17081		**17082**	
Mixing ratio:	Base 17088 : Curing agent 97820 3 : 1 by volume		Base 17088 : Curing agent 97430 3 : 1 by volume	
Application method:	Airless spray	Brush (touch-up)	Airless spray	Brush (touch-up)
Thinner (max.vol.):	0845 (5%) *(See REMARKS overleaf)*	0845 (5%)	0845 (5%) *(See REMARKS overleaf)*	0845 (5%)
Pot life:	2 hrs (20°C/68°F)	4 hrs (20°C/68°F)	2 hrs (15°C/59°F)	4 hrs (15°C/59°F)
Nozzle orifice:	.019"-.021"			
Nozzle pressure:	250 bar/3600 psi *(Airless spray data are indicative and subject to adjustment)*			
Cleaning of tools:	HEMPEL'S TOOL CLEANER 9961			
Indicated film thickness, dry:	150 micron/6 mils *(See REMARKS overleaf)*			
Indicated film thickness, wet:	250 micron/10 mils			
Recoat interval, min:	See REMARKS overleaf			
Recoat interval, max:	See REMARKS overleaf			

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2. HEMPADUR 17081/17082

SURFACE PREPARATION: **New steel:** Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Abrasive blasting to Sa 2½. For temporary protection, if required, use suitable shopprimer. All damage of shopprimer and contamination from storage and fabrication should be thoroughly cleaned prior to final painting. For repair and touch-up use HEMPADUR 1708.

Repair and maintenance: Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Clean damaged areas thoroughly by power tool cleaning (minor areas) or by abrasive blasting. Feather edges to sound and intact areas. Dust off residues. Touch up to full film thickness.

APPLICATION CONDITIONS: Apply only on a dry an clean surface with a temperature above the dew point to avoid condensation. HEMPADUR 17082 is intended for curing conditions down to -10°C/14°F, HEMPADUR 17081 is to be selected in warmer climates. A shift from 17082 to 17081 is most convenient to take place when the temperature is between 15°C/59°F and 25°C/77°F. Optimal spraying properties are obtained at paint temperatures of 18-22°C/64-72°F. In warm climates, the paint should be stored in a clool place. At paint temperatures below 15°C/59°F or in the case of very long spray hoses, thinning may be necessary. This will cause lower film build and longer drying time.
In confined spaces provide adequate ventilation during application and drying.

PRECEDING COAT: None or according to specification.

SUBSEQUENT COAT: None or according to specification.

REMARKS:

Film thicknesses: May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and recoating interval. Normal range dry is 125-175 micron/5-7 mils.

Recoating: On condition of sufficient ventilation the following applies for HEMPADUR 1708 (150 micron/ 6 mils dry film thickness):

HEMPADUR 17081:

Approx. intervals		-10°C/14°F	0°C/32°F	10°C/50°F	20°C/68°F	30°C/86°F
HEMPADUR 1708	min	n.a.	n.a.	30 hours	12 hours	6 hours
	max	n.a.	n.a.	60 days	30 days	15 days
Dry to touch (approx.)		n.a.	n.a.	18 hours	7 hours	4 hours
Fully cured		n.a.	n.a.	15 days	7 days	4 days

HEMPADUR 17082:

Approx. intervals		-10°C/14°F	0°C/32°F	10°C/50°F	20°C/68°F	30°C/86°F
HEMPADUR 1708	min	60 hours	24 hours	12 hours	6 hours	4 hours
	max	(90 days)	90 days	60 days	30 days	15 days
Dry to touch (approx.)		35 hours	14 hours	7 hours	4 hours	3 hours
Fully cured		65 days	30 days	15 days	7 days	4 days

Before recoating after exposure in contaminated environment, clean the surface thoroughly by (high pressure) fresh water hosing and allow to dry. If the coating has been subjected to direct sunlight for a short period only, the maximum recoating interval may be prolonged.
If the maximum interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

Induction time: If the paint temperature, as an exception, is below approx. 10°C/50°F, allow the mixture to pre-react 30 minutes before use.

Note: **HEMPADUR 1708 is for professional use only**.

SAFETY: 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.

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