



HEMPADUR MULTI-STRENGTH 45751 / HEMPADUR MULTI-STRENGTH 45753

High temperatures 45751 : BASE 45755 : CURING AGENT 97652
Low to medium temperatures 45753 : BASE 45755 : CURING AGENT 98750

Description:	HEMPADUR MULTI-STRENGTH 45751/45753 is a self-priming, two-component, highbuild, epoxy-polyamide/amine paint which cures to an abrasion and corrosion resistant coating. Applicable by standard heavy duty airless spray equipment.	
Recommended use:	As a heavy duty coating for areas exposed to abrasion and aggressive corrosive climate such as ramps, ship hulls and holds of bulk carriers. As a ballast tank coating for special purposes such as chemical carriers carrying hot cargoes and other purposes where "pure epoxy coating" is requested. As a finishing coat where a cosmetic appearance is of less importance. HEMPADUR MULTI-STRENGTH 45751 is intended for use in warm climates. HEMPADUR MULTI-STRENGTH 45753 is intended for use in cold climates - see APPLICATION CONDITIONS overleaf.	
Service temperature:	Maximum, dry exposure only: 140°C/284°F Ballast water service. Resists normal ambient temperatures at sea (Avoid long-term exposure to negative temperature gradients). Other water service: 50°C/122°F (no temperature gradient) Other liquids. Contact HEMPEL	
Certificates/Approvals:	HEMPADUR MULTI-STRENGTH 45753 Classified B1 by DNV, Norway. Recognized by Lloyd's Register of Shipping as a low friction surface coating for ships navigating in first year ice conditions. Conforms to NORSOK M-501, system no. 7. Approved as a ballast tank coating by Germanischer Lloyd, Germany. Approved by Lloyd's Register of Shipping as a corrosion control coating. HEMPADUR MULTI-STRENGTH 45753 tested by Teknologisk Institut AS, Norway, and approved for internal use in pipe lines for water power generation according to NS 5417. Tested for non-contamination of grain cargo at the Newcastle Occupational Health & Hygiene, Great Britain. Complies with EU Directive 2004/42/EC: subcategory j.	
Availability:	Part of Group Assortment. Local availability subject to confirmation.	
PHYSICAL CONSTANTS:		
Version, mixed product:	45751	45753
Shade nos/Colours:	12340 / Grey.	12340 / Grey.
Finish:	Semi-gloss	Semi-gloss
Volume solids, %:	79 ± 1	79 ± 1
Theoretical spreading rate:	4 m ² /l [160.4 sq.ft./US gallon] - 200 micron/8 mils	4 m ² /l [160.4 sq.ft./US gallon] - 200 micron/8 mils
Flash point:	27 °C [80.6 °F]	27 °C [80.6 °F]
Specific gravity:	1.6 kg/litre [13.2 lbs/US gallon]	1.6 kg/litre [13.4 lbs/US gallon]
Dry to touch:	7 - 8 hour(s) 20°C/68°F	8 - 10 hour(s) 10°C/50°F
Fully cured:	7 day(s) 20°C/68°F	14 day(s) 10°C/50°F
VOC content:	255 g/l [2.1 lbs/US gallon]	245 g/l [2 lbs/US gallon]
	<i>The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.</i>	
APPLICATION DETAILS:		
Version, mixed product:	45751	45753
Mixing ratio:	BASE 45755 : CURING AGENT 97652 3 : 1 by volume	BASE 45755 : CURING AGENT 98750 3 : 1 by volume
Application method:	Airless spray	
Thinner (max.vol.):	08450 (5%) (Consult the separate APPLICATION INSTRUCTIONS)	
Pot life:	1 hour(s) 20°C/68°F	1 hour(s) 20°C/68°F
Nozzle orifice:	0.021 - 0.023 "	
Nozzle pressure:	250 bar [3625 psi] (Airless spray data are indicative and subject to adjustment)	
Cleaning of tools:	HEMPEL'S TOOL CLEANER 99610	
Indicated film thickness, dry:	200 micron [8 mils] see REMARKS overleaf	
Indicated film thickness, wet:	250 micron [10 mils]	
Recoat interval, min:	According to separate APPLICATION INSTRUCTIONS	According to separate APPLICATION INSTRUCTIONS
Recoat interval, max:	According to separate APPLICATION INSTRUCTIONS	According to separate APPLICATION INSTRUCTIONS
Safety:	Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Safety Data Sheets and follow all local or national safety regulations.	



HEMPADUR MULTI-STRENGTH 45751 45753

SURFACE PREPARATION:

New steel: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Abrasive blasting to minimum Sa 2½ (ISO 8501-1:2007) with a surface profile corresponding to Rugotest No. 3, N9a to N10, preferably BN9a to BN10, Keane-Tator Comparator, 2.0 G/S or ISO Comparator, Medium (G).

Ballast tanks: For PSPC type approved coating, consult separate APPLICATION INSTRUCTIONS. Ballast tanks of chemical carriers to be abrasive blast cleaned to a uniform, sharp, dense profile (Rugotest No. 3, BN9a, ISO Comparator Medium (G), Keane-Tator Comparator 2.0 G/S) corresponding to Rz minimum 50 micron.

Stainless steel: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Ballast tanks of chemical carriers to be abrasive blast cleaned to a uniform, sharp, dense profile (Rugotest No. 3, BN9a, ISO Comparator Medium (G), Keane-Tator Comparator 2.0 G/S) corresponding to Rz minimum 50 micron.

Repair and maintenance: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Remove all rust and loose material by abrasive blasting or power tool cleaning. Feather edges to sound and intact areas. After wet abrasive blasting hose down the surface with fresh water and allow drying. Touch up bare spots with: specified HEMPADUR paint

APPLICATION CONDITIONS:

Use only where application and curing can proceed at temperatures above:

HEMPADUR MULTI-STRENGTH 45753: -10°C/14°F

HEMPADUR MULTI-STRENGTH 45751: 10°C/50°F

The temperature of the paint itself should be above: 15°C/59°F. Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying. Curing requires a relative humidity of: max. 90%.

PRECEDING COAT

None, or as per specification.

SUBSEQUENT COAT:

None, or as per specification. Recommended systems are: HEMPADUR or HEMPATANE

REMARKS:

VOC - EU Directive 2004/42/EC:

Product	As supplied	5 vol. % thinning	Limit phase II, 2010
4575112340	255 g/l	285 g/l	500 g/l
4575312340	245 g/l	275 g/l	500 g/l

For VOC of other shades, please refer to Safety Data Sheet.

Colours/Colour stability:

The curing agent 98750 has a tendency to become darker at storage. This has no influence on performance, but may influence the shade of the mixed product.

Weathering/service temperatures:

The natural tendency of epoxy coatings to chalk in outdoor exposure and to become more sensitive to mechanical damage and chemical exposure at elevated temperatures is also reflected in this product.

Application equipment:

It is recommended to use heavy airless spray equipment with a pump transmission rate of 60:1 (approximately), and a theoretical output of min. 12 litres per minute.

Film thicknesses/thinning:

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: 150-250 micron/6-10 mils

Thinning: Normally not to be diluted.

Recoating note:

The long maximum recoating interval for HEMPADUR will be reduced if the coating is more than just scarcely exposed to direct sunshine before recoating.

If the interval is exceeded, roughening of surface is necessary to ensure intercoat adhesion.

Note:

HEMPADUR MULTI-STRENGTH 45751 45753 For professional use only.

ISSUED BY:

HEMPEL A/S

4575112340

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.

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. Product data are subject to change without notice and become void five years from the date of issue.