

Description:	HEMPACORE AQ 48860 is a one-component water-borne, chlorine free, physically drying intumescent coating for passive fire protection of structural steel against cellulosic fires. It has no VOC (according to ISO11890-2) and it is suitable for in-shop and on-site applications.
Recommended use:	1.As intumescent fire protection for structural steel in interior use up to C2 conditions (ISO 12944-2: 1998): suitable for I-beams, I-columns and hollow columns. 2.As a repair and touch-up coating for damaged areas of freshly applied HEMPACORE AQ.
Service temperature:	Indoor ambient conditions
Certificates/Approvals:	Tested and approved according to EN13381-8 and BS 476-21 for up to 90 minutes fire protection. CE marked product with European Technical Assessment ETA 13/1054 according to ETAG018 Part 2.
Availability:	Part of Group Assortment. Local availability subject to confirmation.
PHYSICAL CONSTANTS:	
Shade nos/Colours:	10000 / White
Finish:	Flat
Volume solids, %:	67 ± 3
Theoretical spreading rate:	1 m ² /l [40.1 sq.ft./US gallon]
Flash point:	180 °C [356 °F]
Specific gravity:	1.4 kg/litre [11.9 lbs/US gallon]
Surface-dry:	16 minute(s) , 20°C/68°F and 750 micron/30 mils
Through-dry:	5 hour(s) , 20°C/68°F and 750 micron/30 mils
Dry to handle:	See separate APPLICATION INSTRUCTIONS
VOC content:	0 g/l [0 lbs/US gallon] (ISO11890-2)
Shelf life:	12 months , 10°C/50°F - 40°C/105°F, thereafter the paint quality is subject to re-inspection. Shelf life is reduced at storage temperatures above: 40°C/105°F. Do not store below the following temperature: 5°C/41°F.
	<i>The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.</i>
APPLICATION DETAILS:	
Application method:	Airless spray / Brush
Thinner (max.vol.):	Not recommended.
Nozzle orifice:	0.017 - 0.023 "
Nozzle pressure:	200 bar [2900 psi] See separate APPLICATION INSTRUCTIONS (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	Water
Indicated film thickness, dry:	The Dry Film Thickness (DFT) is dependent on the required fire resistance as well as the massivity factor (Hp/A) of the steel element. Consult your local Hempel representative for more information.
Overcoat interval, min:	See separate APPLICATION INSTRUCTIONS
Overcoat interval, max:	See 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.

SURFACE PREPARATION:	The product should only be applied over steel which has been blasted to Sa 2½ (ISO 8501-1) and primed with an approved primer. Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. The steel must be coated with a Hempel approved primer. Under restrictions St 3 (ISO 8501-1) prepared steel can be acceptable, consult the application instructions for the requirements. Galvanised steel, Thermal Spray Aluminium/ Zinc coated steel and stainless steel substrates may require other surface preparations, consult the application instructions for detailed information.
APPLICATION CONDITIONS:	At temperatures ranging: 5°C/41°F - 40°C/105°F. Relative humidity preferably below:85% (See separate APPLICATION INSTRUCTIONS). In confined spaces provide adequate ventilation during application and drying.
PRECEDING COAT:	According to specification and only Hempel approved primer. Consult your Hempel technical representative for information on approved primers.
SUBSEQUENT COAT:	A selection of approved topcoats are available. Consult your Hempel technical representative for detailed working specification.
REMARKS:	
Colours/Colour stability:	The product is only available in white, but can be top coated with an approved topcoat in any colour.
Weathering/service temperatures:	The product is intended for indoor use.
Film thicknesses/thinning:	The DFT is dependent on the required fire resistance as well as the massivity factor (Hp/A) of the steel element. Consult your local Hempel representative for more information. In order to achieve the specified fire resistance it is important that the required DFT is obtained as a minimum on all coated areas. Furthermore, the specified DFT should not be exceeded by far. Please consult the Application Instructions for more detailed information.
Storage Conditions:	The max.DFT that can be applied per coat is 750 micron [30 mils] (equivalent to 1100 micron [43 mils] wet film thickness). Storage temperature: min 10°C/50°F and max 40°C/105°F. Do not store below the following temperature: 5°C/41°F.
Overcoating note:	The product can be over-coated with itself when additional thickness is required. Depending on the end use of the coating system, a topcoat may be required.
Note:	For multi-coat application minimum overcoating interval is influenced by the actual film thickness and number of coats applied. Reference is made to the drying times in the application instructions. It is important that the specified intumescent thickness has been achieved before any top coat is applied. The product can be overcoated provided that the underlying coating surface is in good condition, clean, dry and free from contamination.
ISSUED BY:	HEMPACORE AQ 48860 For professional use only. HEMPEL A/S

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This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" at 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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Product data are subject to change without notice and become void five years from the date of issue.