

Product Data

Hempafire Pro 315 Fast Dry



Description:	Hempafire Pro 315 Fast Dry 43361 is a one component, solvent-borne, intumescent coating, optimised for 60 minutes for protection of structural steel against cellulosic fires. It is suitable for in-shop and on-site applications.
Recommended use:	1. As passive fire protection for structural steel in interior and exterior conditions (Up to C4 conditions ISO 12944-2). Suitable for open profile beams and columns, cellular beams and hollow section beams and columns. 2. As a repair and touch up coating for damaged areas of freshly applied Hempafire Pro 315 Fast Dry.
Service temperature:	-10°C/14°F to 50°C/122°F
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 Approval ETA n° 18/0689 according EAD 350405-00-1106. Approved for up to Type X conditions (all conditions)
Availability:	Part of Group Assortment. Local availability subject to confirmation.
PHYSICAL CONSTANTS:	
Shade nos/Colours:	10000/ White (see REMARKS overleaf)
Finish:	Flat
Volume solids, %:	75 ± 3
Theoretical spreading rate:	1 m ² /l [40.1 sq.ft./US gallon] - 750 micron/30 mils
Flash point:	4 °C [39.2 °F]
Specific gravity:	1.3 kg/litre [11.1 lbs/US gallon]
Surface-dry:	5 approx. minute(s) at 20°C/68°F - 750 micron/30 mils
Through-dry:	15 approx. hour(s) 20°C/68°F - 750 micron/30 mils
Dry to handle:	See separate APPLICATION INSTRUCTIONS
VOC content:	340 g/l [2.8 lbs/US gallon]
Shelf life:	12 months 25°C/77°F , thereafter the paint quality is subject to re-inspection <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] (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	HEMPEL'S THINNER 08080 or HEMPEL'S TOOL CLEANER 99610
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.

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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. Under restrictions St 3 (ISO 8501-1) prepared steel can be acceptable, consult the application instructions for the requirements. Galvanised steel substrates may require other surface preparations, consult the application instructions for detailed information.

APPLICATION CONDITIONS: At temperatures ranging: 5°C/41°F - 50°C/122°F. Recommended: Hempafire Pro 315 Fast Dry (43361) below 15°C/59°F and Hempafire Pro 315 (43360) above 25°C/77°F. 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. Hempafire PRO 315 Fast Dry 43361 can be used without topcoat in C1, C2 and C3 interior environments (ISO 12944-2) Consult your Hempel technical representative for detailed working specification. In combination with appropriate approved topcoat, Hempafire PRO 315 Fast Dry is suitable for up to C4 environments (ISO12944-2) .

REMARKS:

VOC - EU Directive 2004/42/EC:

Product	As supplied	0 vol. % thinning	Limit phase II, 2010
4336110000	340 g/l	340 g/l	500 g/l

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

Colours/Colour stability:

Weathering/service temperatures:

The product is only available in white, but can be top coated with an approved topcoat in any colour

During the construction phase, this product can be exposed to mild exterior conditions up to 12 months without a topcoat applied. In practical terms this means, that the surface shall be protected against longer periods of rainfall, snow and very high humidity (i.e. an environment like C3 or C4 (ISO 12944) or shall be applied an approved acrylic or polyurethane topcoat. It is outmost important to ensure that the intumescent film is sufficiently dry before it is exposed. Even when topcoated, the surface shall be protected from longer periods of pooling or standing water, either by coverage or by drainage.

The product is thermoplastic, prolonged exposure at temperatures above 40°C/104°F will reduce mechanical strength. When the temperature decreases the mechanical strength is recovered.

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.

The maximum DFT than can be applied per coat is 1600 micron (64 mils), equivalent to 2150 micron (86 mils) wet film thickness, although for optimum drying it is recommend to apply in 800 micron DFT (1100 micron WFT) coats.

Note:

See separate APPLICATION INSTRUCTIONS.
Hempafire Pro 315 Fast Dry

ISSUED BY:

HEMPEL A/S

4336110000

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.

The Products are supplied and all technical assistance is given subject to HEMPEL's GENERAL TERMS AND CONDITIONS FOR INTUMESCENT PAINTS, 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 TERMS AND CONDITIONS FOR INTUMESCENT PAINTS 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.