

Declaration of Performance

No DOP 43490

Revision 2, Oct 2023

1)	Unique identification code of the product-type	Hempafire Pro 400
2)	Intended Use:	Solvent borne reactive coating for the fire protection of structural steel
3)	Manufacturer:	Hempel A/S Lundtoftegårdsvej 91 DK-2800 Kgs Lyngby Denmark
4)	Authorised Representative:	N/A
5)	System/s of AVCP:	System 1
6a)	Harmonised Standard:	N/A
	Notified Bodies:	N/A
6b)	European Assessment Document:	EAD 350402-00-1106 (September 2017)
	European Technical Assessment:	ETA 22/0309 (09-10-2023)
	Technical Assessment Body:	ITeC
	Notified Body/ies:	ITeC(1220)
7)	Declared Performance	See Table 1

Table 1: Declared Performance

Essential Characteristic	Performance	Technical Specification
Reaction to Fire	D-s2,d0 when applied over any primer as given in table 2 and without- or with a topcoat as given in table 3 B-s1,d0 when applied at max 900µm DFT, using primer Hempadur Speed-Dry ZP500 at 100µm DFT and using topcoat Hemptthane HS 55610 at 80µm DFT.	EN13501-1:2007 + A1:2010
Fire Resistance	H or I Sections beams and columns, and Rectangular or Circular Hollow Columns: R15, R30, R45, R60, R90, at design temperatures from 300°C – 850°C. For beams and columns also R105 and R120; and CHS also R105	Tested according EN13381-8:2013 and classified according EN13501-2:2007+A1:2009
Smouldering fire exposure	Meet requirements	EN13381-8:2010, Annex A
Durability	Without a topcoat or with topcoat, see table 3 Topcoated with approved topcoat, see table 3	Type Y Type X section 2.2.5 of EAD 350402-00-1106
Release of dangerous substances	The product does not contain substances above threshold limits listed on Annex XIV (Authorisation list) or Annex XVII (Restriction list) or Candidate list (Substances of very high concern) under EU REACH 1907/2006.	

Table 2: Approved Primers for Hempafire Pro 400

Essential Characteristic	Performance	Technical Specification
Compatibility of primers on carbon steel by generic family (as supported by EAD350402-00-1106)	2-component Epoxy – SB	Section 2.3.4.2 of EAD 350402-00-1106
	2-component Epoxy – WB	
	1-component Epoxy - SB	
	Alkyd - SB	
	Alkyd - WB	
	Acrylics - SB	
	Zinc Rich Epoxy – SB	
	3-component Zinc Rich Epoxy – WB*	
	Activated Zinc primer - SB	
	2-component Polyurethane*	
	Zinc-Rich Epoxy + 2-component Epoxy – SB*	
	Inorganic Zinc Rich + 2-component Epoxy – SB*	
	2-component Epoxy + 2-component Epoxy – SB*	
2-component Epoxy + 2-component Polyurethane – SB*		
Compatibility of primers on galvanised steel (EN 1463)	Hempadur 15553 or Hempadur 15570	
Compatibility of primers on Stainless steel (EN10088)	Hempadur 15553 or Hempadur 15570	
Compatibility of primers on Thermally Sprayed Aluminium (TSA), 250µm aluminium coating	Hempadur 15553 or Hempadur 15570	
Compatibility of primers on Thermally Sprayed Zinc (TSZ), 100µm zinc coating	Hempadur 15553	

SB = Solvent Borne

WB = Water Borne

*Primers and primer systems shown with asterisk are only supported when project specific written confirmation is provided by Hempel

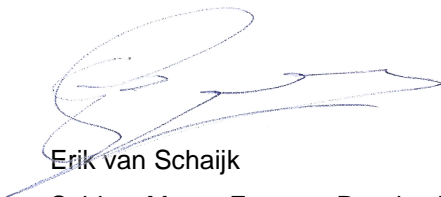
Table 3: Approved Topcoats for Hempafire Pro 400

Type	Topcoats for Type X environmental use
2 component isocyanate free Acrylic - SB	Hempel's Pro-Acrylic 55883
Acrylic - SB	Hempatex Hi-build 46410
	Hempatex Enamel 56360
Acrylic - WB	Hemucryl Enamel Hi-Build 58030
Polyurethane - SB	Hempel's PolyEnamel 55102
	Hempathane Topcoat 55210
	Hempathane HS 55610
	Hempathane fast dry 55750
	Hempathane HS 55810
	Hempathane TL87/EG 87480
	Hempathane Speed dry topcoat 250
Polyurethane - WB	Hemuthane Enamel 58510
2 component epoxy - SB	Hempadur Fast Dry 45410
Type	Topcoats for Type Y environmental use
Alkyd - SB	Hempel's Speed-Dry Alkyd 43140
	Hempel's Speed-Dry Alkyd 43141
Acrylic - WB	Hemucryl Enamel - 58100

8) Appropriate Technical Documentation and/or Specific Technical Documentation N/A

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above

Signed for and on behalf of the manufacturer by:



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