

EMSEAL LLC

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EMSEAL JOINT SYSTEMS, LTD

25 Bridle Lane
 Westborough, MA 01581-1228
 PH: 508-836-0280, FX: 508-836-0281



DECLARATION OF PERFORMANCE COLOURSEAL VHE

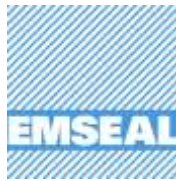
Number of the declaration of performance	01.28.2020-CA-EN-vs01
1. Unique identification code of the product-type:	Colourseal VHE
2. Intended uses :	<p>Colourseal VHE is a fire rated movement joint used for different applications :</p> <p>Joint seal in a floor or as horizontal joint abutting a floor, ceiling or roof (configurations A and D in figure 1 in EAD 350141-00-1106).</p> <p>Vertical joint seal in a wall (configuration B in figure 1 in EAD 350141-00-1106).</p> <p>Joints are made of dual-sided silicone sealing surfaces adhered to a fire-retardant impregnated polyurethane foam backing.</p>
3. Manufacturer	EMSEAL Joint Systems Ltd. 25 Bridle Lane Westborough, MA 01581 – U.S.A.
5. System of AVCP	System 1
6-b European Assessment Document	EAD 350141-00-1106 (Fire Stopping and Fire Sealing Products)
7- European Technical Assessment	ETA-19/ 0222 of 12 th August 2019
8- Technical Assessment body	Centre Scientifique et Technique du Bâtiment (CSTB)
9- Notified body	Centre Scientifique et Technique du Bâtiment (CSTB) identification number 0679

10- Declared performance:

Harmonized technical specification			
Essential Characteristics	Performance	Standard	Classification report Number
Reaction to Fire:	Class E	EN 13501-1	CSTB N° RA19-0059
Resistance to Fire DFR	EI90 -- Vertical applications EI45 -- Horizontal applications	EN 13501-2	CSTB RS16-004/A & B
Water permeability	No leakage was measured	EN 12155	CSTB N° FaCeT 19-0039-26076481
Air permeability	No leakage was measured	EN 12155	CSTB N° FaCeT 19-0039-26076481
Airborne sound insulation	Rs,w (C, Ctr) ≥ 54 (-1; -3)	EN 10140-2	CSTB N° AC18-26076481
Movement Capability	100% (+/- 50%) of normal supplied size.	EN 1366-4	CSTB RS19-004/A & B
Durability and serviceability	Type X : intended for use in conditions exposed to weathering.		

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The clasement is only valid with conditions :

- Respect the arrangement and corresponding installation parameters:
- Fire is under the concrete floor
 - Respect configurations A and D in figure 1.1 in ETAG 026-3 only
 - Density and thickness of the supporting construction must be those required
 - Respect the compression ratio of sealing joint.
 - Minimum density of the supporting construction (rigid concrete floors) in which Colourseal VHE is used for linear joint \geq 2400 kg/m³.
 - Minimum thickness of the supporting construction (rigid concrete floors) in which Colourseal VHE used for linear joint \geq 200 mm mm of concrete.
 - Colourseal VHE must be applied using the component listed in table 1.1 below according to the installation described in annex A :

Table 1.1 : Component list:

Name	Trade reference	Characteristics	Supplier
EPOXY ADHESIVE PART A and B (on the concrete substrate walls)	SIKADUR 31 CF	2-3mm of thickness	SIKA FRANCE
Linear joint	Colourseal VHE	polyurethane density (initial compression rate) = 280 kg/m ³ , silicone density = 1122 kg/m ³ Silicone thickness on each side= 2,5 to 4 mm (valleys: 1,5 mm +/-0.5mm)total width and total thickness at initial compression rate (see table 1.2 under)	EMSEAL Joint Systems Ltd
Silicone sealant (interface between the jointsand peripheral sealing)	Sikasil WS 295	4-6mm diameter	Sika

Table 1.2 : joints sizes

Colourseal VHE sizes																											
Joint nominal width (mm)	12	19	25	30	40	45	50	55	65	70	75	85	90	95	100	110	115	120	125	135	140	145	150	165	175	190	200
Joint thickness (mm)	70	70	70	70	70	70	70	70	70	75	90	95	95	105	115	115	125	135	140	145	145	145	150	165	175	190	200

The seal is not sold as a kit, only Colourseal VHE is covered by the ETA. It is the responsibility of the installer to obtain the other components for incorporation into the assembled system.

