



F08

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TECHNICAL DATA SHEET

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VIPEQ® - 07/01/2019 (this version replaces and revokes previous versions)
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APPLICATIONS

Ecofriendly decorative Spray Cork coating for long-lasting protection and renovation of walls and facades.

Finish coating for external insulation systems, VIPEQ THERM EIFS.

FORMULATION

Mixture of selected cork particles with different types of water based resins, mineral filler, stabilizer and special additives.

SPECIFICATIONS

Appearance	Doughy product
Final texture	Grainy
Colour	Natural brown, off-white, extrawhite and range of colours
Density	0.5-0.7 g/cm ³
Granulometry	0.5-0.8 mm
Fire reaction (UNE-EN 13501 :2002)	Bs2,d0 and Broof (t1)
Thermal conductivity (UNE-EN 12667:2002)	0,058 (W/mK) at 10°C

CHARACTERISTICS

- Vapour-permeable.
- Rainwater proof on vertical walls.
- Flexible, prevents retraction fissures.
- Continuous thermal coating, improving insulation on thermal bridges.
- Improves acoustic comfort reducing resonance.

SUBSTRATES

Traditional mortar, concrete, bricks, corrugated steel sheet, wood, PVC, expanded polystyrene (EPS), extruded polystyrene (XPS), single layer mortar, on exterior and interior walls, plaster and plasterboard on interior walls.

Old paint or synthetic coating providing they are in good condition and attached to the substrate.

CORK FIX adhesive paste and lime mortars used in VIPEQ THERM ETICS systems.

The substrate must be clean, dust-exempt, dry and free of oils and grease. Curing of cement mortar renderings must be fully finished. Level flatness of the substrate with a suitable repairing mortar or CORK FIX.

For highly absorbent substrates, it is advisable to previously apply a primer.

INSTRUCTIONS FOR USE

There are two components inside the container. Stir cork emulsion with the component II inside a hod, by an electric mixer until the dough is homogeneous. In case of coloured coating, pour the colourant and stir the mixture again. Some water can be added to achieve a proper viscosity using the colourant bottle.

The product must be applied by mechanical projection in two or more layers. Estimated drying time between layers is 24h, although it varies depending on ambient humidity and temperature.

- Application standard thickness: 3 mm
- Dry touch: 30 minutes (Ambient temperature 20°C)
- Total drying: 12-24 hours
- Estimated Performance for 3 mm. thick coating:
 - Standard colours: 1.8-2.0 kg/m²
 - Extra-white colour: 2.2-2.4 kg/m²
- Application temperature: from +5°C to + 45°C

RECOMMENDATIONS

Thoroughly mix the product by an electric mixer (1,800W and 780 rpm) using an extra-fast VIPEQ 152 type mixing rod until the dough is homogeneous.

Use adhesive tape for limiting working areas, covering window frames or making decorative drawings on facades.

Tools must be cleaned with soap and water before the product is dry. Otherwise they should be kept underwater with detergent for at least one day. Then, thoroughly brush the remaining product.

STORAGE

The product must be kept away from sunlight exposure, temperatures above 45°C or below -2°C. In its original container tightly closed and protected from moisture: 1 year.

PACKAGING

12 kg. plastic pail. 432 kg pallet (36 pails).

RISK SYMBOLS

- S2 Keep out of the reach of children
- S7 Keep container tightly closed

DISCLAIMER

The information and recommendations given in this technical data sheet reflect our current knowledge, laboratory tests and experience. For this reason, our guarantee is limited to the quality of the product supplied. This company shall not assume any liability arising from misuse of our products.

THERMAL CONDUCTIVITY

ASTM C518-17 "Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus":

Average thermal resistance values at 1"		
Mean Temperature (°C)	Avg. Thermal Resistance at 1" (25 mm)	
	°F·ft ² ·h/Btu at 1"	K · m ² /W at 25 mm
23	1.600	0.277

Variability of thermal resistance values at 1"			
Mean Temperature (°C)	Standard Deviation (°F·ft ² ·h/Btu at 1")	Standard Deviation (K · m ² /W at 25 mm)	Coefficient of Variation
23	0.058	0.010	4%

EN 12667:2002 "Thermal performance of building materials and products. Products of high and medium thermal resistance":
 Thermal conductivity (W/mK): 0.058

Measurement of Surface Temperatures and Heat Flow Under Radiation as indicated in UNE-EN ISO 12543-4:1998:

Sample	% of heat flow through the sample in relation to the flow through the fibre cement	Difference between sample with coating and sample without coating
Fibre cement without coating	100%	-
Fibre cement with 6 mm. natural VIPEQ coating	52.7%	47.3%
Fibre cement with 6 mm. white VIPEQ coating	53.8%	46.2%
Fibre cement with 3 mm. natural VIPEQ coating	81.9%	18.1%

FIRE SAFETY

CAN/ULC S102-18 "Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies":

- Flame Spread Rating: 0
- Smoke Developed Classification: 10

EN 13501-5:2005 "Fire classification of construction products and building elements. Part 5: Classification using data from external fire exposure to roofs tests": B_{ROOF(t)}

EN 13501:2007 "Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests: B-s₂, d0

Test Method	Parameter	Result
EN 13823:2002	FIGRA _{0.2 MJ}	110.71 W/s
	FIGRA _{0.4 MJ}	78.44 W/s
	LFS<edge> THR _{600s}	YES 1.72 MJ
EN ISO 11925-2:2002	SMOGRA THR _{600s}	30.69 m ² 153.47 m
	Flaming droplets/particles	NO
	F _s < 150 mm. (in 60 sec.)	YES
	Ignition of filter paper	NO

SOUND ABSORPTION

ISO 10354-2 "Standard Incidence Sound Absorption Coefficient Test":
 $\alpha = 0.24$ (250 Hz); 0.20 (500 Hz); 0.32 (630 Hz); 0.23 (1000 Hz); 0.30 (2000 Hz)

WATER VAPOR TRANSMISSION PROPERTIES

ASTM E96/E96M-16 "Standard Test Methods for Water Vapor Transmission of Materials":

Test Result Summary	Metric units	Imperial Units
Water Vapor Transmission	15.66 g/hr. m	22.39 grns/hr.ft
	375.78 g/day.m	537.36 grns/hr.ft
Water Vapor Permeance	3046.29 ng/Pa.s.m	53.26 perms
	0.20 per mm.	840.20 per in.
Water Vapor Permeability	4.90 ng/Pa.s.m	840.20 Perm inch

EN ISO 7783:2012 "Determination of water-vapour transmission properties":

Water vapour transmission rate V (36.83 g/m² x day)
 Equivalent air layer thickness S_D = 0.57 m.
 Class I: S_D < 5 m. (water vapour permeable)

LIQUID WATER PERMEABILITY

EN 1062-3:2008 "Determination of liquid water permeability":
 Transmission index of liquid water W: 0.12 ± 0.01 kg/(m².h^{0.5})

RESISTANCE TO MOLD/FUNGI/ALGAE

ASTM D3273 - 2016 "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coating in an Environmental Chamber":
 Samples received a rating of 10 meaning there was zero defacement on the test specimens at the completion of the mold resistance evaluation.

ASTM G21 - 2015 "Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi":

Samples received an average growth rating of 0 meaning there were No Growth (0%) on the test specimens at the completion of the fungal resistance evaluation.

Dry film fungal/algal resistance test (Thor Method 800.2/850.2)

The results of the test indicate that the samples have adequate protection against moulds and algae after a pretreatment in QUV during 250 hours.

RESISTANCE TO SALT

ASTM B117-18 "Standard Practice for Operating Salt Spray (Fog) Apparatus":

Slight color change observed as samples were darker shade of red when compared to control. Average mass loss was 0.5% and no other signs of damage were observed.

COLOUR AGEING

UNE 48073-2:1994 "Difference in colour after ageing in accordance with UNE-EN ISO 4892-3:2006:
 ΔE^* (red): 1.91; ΔE^* (green): 3.98

DIMENSIONAL STABILITY

EN 1604:2013 "Determination of dimensional stability under temperature and humidity conditions (60°C / 50% h.r.):
 Dimensional change: Length (-0.1%), Width (-0.1%), Thickness (+0.4%)