

BATICHANVRE® PLUS



LIME FOR HEMP CONCRETE

THE + BENEFITS

- + THERMAL & ACOUSTIC INSULATION
- + EXCELLENT FIRE PERFORMANCE
- + VAPOUR PERMEABLE
- + SUMMER COMFORT (HUMIDITY REGULATION)
- + ASSURED AIR QUALITY

WHAT ELSE ?

- > Reduced carbon footprint
- > Easier machine cleaning
- > A formula enriched with NHL
- > A patented formula (N° EP2430679)
- > Reduced setting time
- > Reduced water requirement

AREAS OF USE

- > Wall shuttering and timber frame structures
- > Insulating concrete on upper floor levels
- > Can be used with ISOCANNA® or "building hemp" certified

PACKAGING

- 25 kg bag
- 40 bags per pallet (pallet of 1T)



**REDUCED CARBON
FOOTPRINT**

PRODUCT COMPOSITION

Patented formula composed mainly of Pure Natural Hydraulic Lime from Saint-Astier®.

SHELF LIFE AND GUARANTEE

1 year from the date of manufacture, protected from humidity and in its original unopened packaging. Liability of the manufacturer.

PRODUCT CONFORMITY

- > The BATICHANVRE® PLUS / ISOCANNA® combination complies with the technical requirements defined by the Professional Rules and is validated by the CenC association (Construire en chanvre).
- > To obtain certificates of validated combinations with BATICHANVRE® PLUS, please contact our Technical Department : technical_support@saint-astier.com



by

SAINT-ASTIER
LIME. LIFELONG EXCELLENCE

**25
KG**

**HL
3,5**

**LIME
STANDARD
NF EN 459-1**

**VALIDATED
COUPLE
CenC**

**PATENTED
FORMULA**

FOR SHUTTERED WALLS, INTERIOR PARTITION APPLICATIONS AND TIMBER FRAMED WALLS

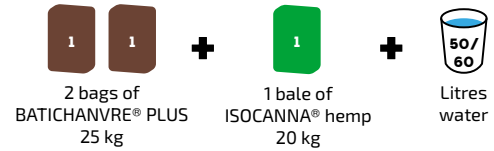
TABLE OF THERMAL RESISTANCES AND PHASE SHIFTING

Thickness	15 cm	25 cm	35 cm	45 cm
R (Thermal Resistance) in m ² .KW-1	2,17	3,62	5,07	6,52
Phase shift (hours)	8,7	14,8	20,7	26,6

TECHNICAL DATA

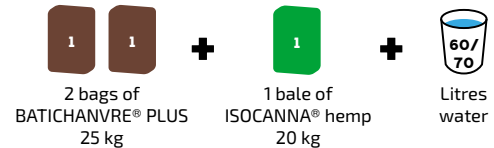
Density (kg./m ³)	Thermal conductivity (λ) W.m-1.K-1	μ**	Fire reaction
350 to 450	0,069	4,5 to 10	B-s1, d0

MECHANICAL PROJECTION



MANUAL APPLICATION

The concrete should be used within 30 minutes of mixing.



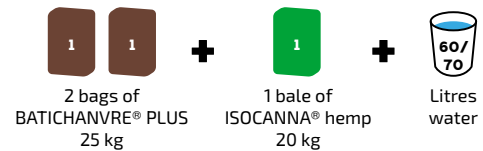
HEMP FLOORS ON WOODEN BOARDS

THERMAL RESISTANCE TABLE

Thickness	15 cm	20 cm	25 cm	30 cm
R (Thermal Resistance) in m ² .KW-1	2,18	2,90	3,62	4,35
Phase shift (hours)	8,9	11,8	14,8	17,7

TECHNICAL DATA

Density (kg./m ³)	Thermal conductivity (λ) W.m-1.K-1	Fire reaction
350 to 450	0,069	B _{fl} -s1



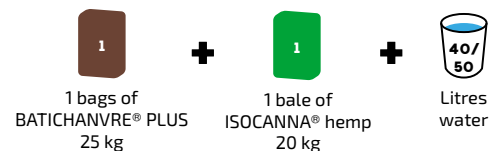
UNDER-ROOF INSULATION (LOFT INSULATION MORTAR)

TABLE OF THERMAL RESISTANCES AND PHASE SHIFTS*

Thickness	20 cm	30 cm	40 cm	50 cm
R (Thermal Resistance) in m ² .KW-1	3,85	5,77	7,69	9,62
Phase shift (hours)	11,1	16,6	22,1	27,7

TECHNICAL DATA

Density (kg./m ³)	λ of concrete in W.m-1.K-1	Fire reaction
220 to 250	0,052	B-s1, d0



* Thermal inertia is the ability of a material to store heat and then release it. It provides a thermal phase shift (the time lag and attenuation of an outside temperature, for example). The values presented in the tables below are taken from the calculated and measured characteristics of our hemp concrete formulations. They are expressed in hours over a reference period of 24 hours.

** The coefficient of resistance to water vapour diffusion (μ).

PREPARATION OF MIXES

Manual application :

- > Place the water and BATICHANVRE® PLUS in a concrete mixer and leave to mix for 3 to 5 minutes (milk obtained must be homogeneous and lump-free) then add the decompressed hemp and leave to mix to obtain a homogeneous mixture with a crumb-like consistency.
- > Stop the mixer once the desired consistency is achieved.
- Apply the product within 30 minutes of mixing.**

Machine application :

- > Mechanical application possible with dedicated machines : please consult us.

PRODUCT PERFORMANCE / TECHNICAL SPECIFICATIONS

- > Lambda measured by an external COFRAC accredited laboratory.
- > Carbon footprint (see ESDS).
- > For further information consult our documentation.
- > LIFE CYCLE (LCA) available on the Inies database.



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