

# BATICHANVRE® ISOL PLUS



LIME FOR HEMP CONCRETE

## THE + BENEFITS

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

### ADDITIONAL ADVANTAGES

- > Reduced carbon footprint
- > Quick setting
- > Easier machine cleaning
- > Formula enriched with NHL
- > Patented formula (N° EP2430679)
- > Lighter bag = 18 kg
- > Higher thermal resistance

### 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

18 kg bag - 40 bags per pallet (720 kg pallet)  
Available in Big Bag (1.4T)



**REDUCED CARBON  
FOOTPRINT**

### PRODUCT COMPOSITION

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

### SHELF LIFE AND GUARANTEE

9 months from the date of manufacture, if kept dry in its original unopened packaging. Liability of the manufacturer.

### PRODUCT CONFORMITY

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



by



**SAINT-ASTIER**  
LIME. LIFELONG EXCELLENCE

**18  
KG**

**HL  
5**

**LIME  
STANDARD  
NF EN 459-1**

**VALIDATED  
COUPLE  
CenC**

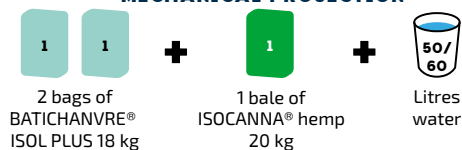
**PATENTED  
FORMULA**

## 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 <sup>2</sup> .K.W-1	2.34	3.91	5.47	7.04
Phase shift (hours)	8.7	14.4	22.5	28.3

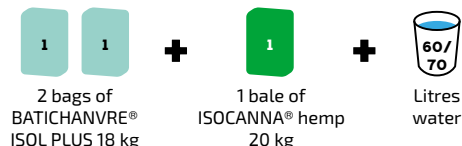
TECHNICAL DATA			
Density (kg./m <sup>3</sup> )	Thermal conductivity (λ) W.m-1.K-1	μ**	Fire reaction
300 to 350	0.064	4.5 à 10	B-s1, d0

### MECHANICAL PROJECTION



### MANUAL APPLICATION

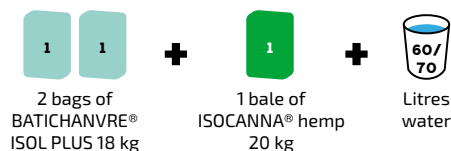
The concrete should be used within 30 minutes of mixing.



## HEMP FLOORS ON WOODEN BOARDS

TABLE OF THERMAL RESISTANCES AND PHASE SHIFTS*				
Thickness	15 cm	20 cm	25 cm	30 cm
R (Thermal Resistance) in m <sup>2</sup> .K.W-1	2.34	3.12	3.91	4.68
Phase shift (hours)	8.7	11.5	14.4	17.3

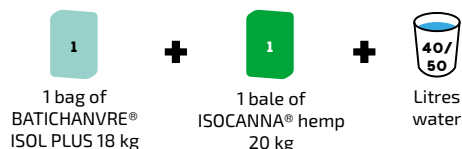
TECHNICAL DATA		
Density (kg./m <sup>3</sup> )	Thermal conductivity (λ) W.m-1.K-1	Fire reaction
300 to 350	0.064	B <sub>fl</sub> -s1



## UNDER-ROOF INSULATION (LOFT INSULATION MORTAR)

TABLE OF THERMAL RESISTANCES AND PHASE SHIFTING							
Thickness	20 cm	25 cm	30 cm	35 cm	40 cm	45 cm	50 cm
R (Thermal Resistance) in m <sup>2</sup> .K.W-1	4.08	5.10	6.12	7.14	8.16	9.18	10.20
Phase shift (hours)	10.7	13.4	16	18.7	21.4	24.1	26.7

TECHNICAL DATA		
Density (kg./m <sup>3</sup> )	Thermal conductivity (λ) W.m-1.K-1	Fire reaction
200 to 220	0.049	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® ISOL 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.



**Chaux de Saint-Astier**  
28 bis route de Montanceix - La Jarthe - 24110 Saint-Astier  
www.saint-astier.co.uk - contact\_uk@saint-astier.com

