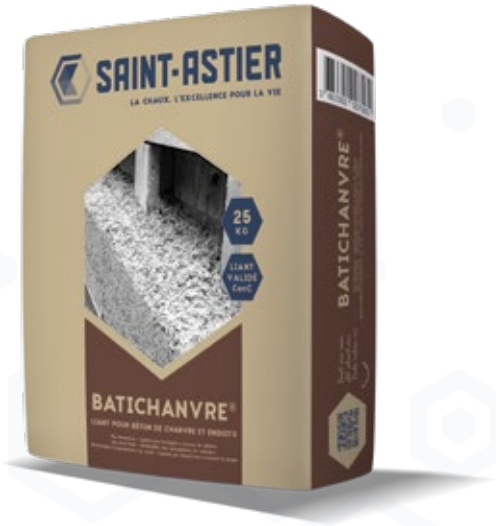
TECHNICAL DATA SHEET

SAINT-ASTIER

LIME, LIFELONG EXCELLENCE

BATICHANVRE®

THE HEMP LIME



TECHNICAL LIME BINDER

THE **BENEFITS**

- IMPROVES THERMAL INSULATION
- LIGHT
- CONTRIBUTES TO A HEALTHY AIR QUALITY
- HYGROMETRIC REGULATION

SUITABLE FOR

> Walls
> Shuttered hempcrete
> Floors
> Roofs

PACKAGING

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

PRODUCT COMPOSITION

Saint-Astier® lime binder specially formulated for hemp/lime solutions..

SHELF LIFE & GUARANTEE

One year from production date if protected in the original packaging and stored in dry conditions. Manufacturer Civil Responsibility.

25 KG

ECO BUILD

www.stastier.co.uk

BATICHANVRE®
THE HEMP LIME

MANUAL

MACHINES
consult us

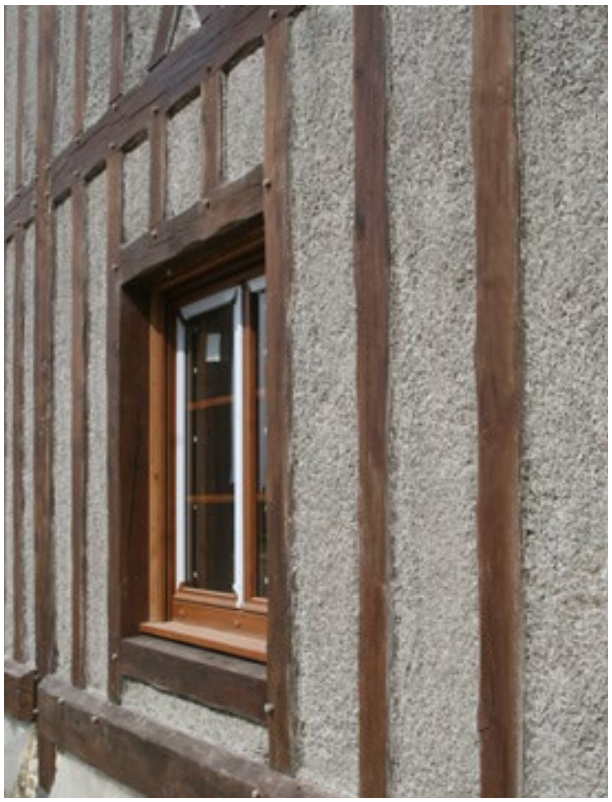
PERFORMANCE

ESSENTIAL SPECIFICATION	BATICHANVRE®	250kg OF BATICHANVRE® + 1M³ OF HEMP
Dry density	650 to 750 g/l	350 - 400 kg/m^3
Whiteness index	42 to 50	
Compressive strength at 90 days		> 0.7 MPa
Thermal conductivity λ		0.073 W.m^{-1}k^1
Thermal resistance for 15 cm		2.05 m^{2}KW^{-1}
Vapour permeability		1,94.10 to 4,31.10 kg/m^{2}s.Pa
Elasticity moduli		> 60 MPa

APPLICATION
Mechanical spraying is possible, please contact us. Concrete insulation please contact us.
Hemp renders are applied in 2 to 3 cm thick coats, with a delay of 30 to 90 mins between each coats.
For inside use, if no protective coating is applied, cover the hemp render, let the base coat set for 3 or 4 days before applying the last coat.

WORKING TEMPERATURE
Not below 5°C or above 30°C. Ensure high suction substrates are thoroughly dampened before application. Avoid rapid drying due to high temperatures and strong winds by covering and curing with a light water mist as necessary. Reseal open bags as soon as possible.

HEALTH & SAFETY
Follow the instructions on the safety data sheet and wear the appropriate equipment (gloves, mask, safety shoes...).



SAINT-ASTIER
LIME, LIFELONG EXCELLENCE

Chaux de Saint-Astier
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FLOORS, SLABS AND SCREEDS

THERMAL RESISTANCE				
Thickness	15 cm	20 cm	25 cm	30 cm
R (Thermal resistance) m².K.W⁻¹	2,05	2,74	3,42	4,11
Thermal phase shift* (400 hours)	8,9	11,8	14,8	17,7

TECHNICAL DATA		
Dry Density in kg/m⁻³	λ (W.m⁻¹.K⁻¹)	Fire resistance
350 m 450	0,073	B_{fl}-s1

2 bags BATICHANVRE® 25 kg + 1 bale of ISOCANNA® 20 kg + Water 60/70 L

WALL SHUTTERING AND TIMBER FRAME STRUCTURES

THERMAL RESISTANCE						
Thickness	20 cm	25 cm	30 cm	35 cm	40 cm	45 cm
R (Thermal resistance) m².K.W⁻¹	2,74	3,42	4,11	4,79	5,48	6,16
Thermal phase shift* (400 hours)	11,8	14,8	17,7	20,7	23,6	26,6

TECHNICAL DATA			
Dry Density in kg/m⁻³	λ (W.m⁻¹.K⁻¹)	μ**	Fire resistance
350 m 450	0,073	4,5 m⁻¹⁰	B-s1, d0

2 bags BATICHANVRE® 25 kg + 1 bale of ISOCANNA® 20 kg + Water 60/70 L

ROOF AND ATTIC INSULATION

THERMAL RESISTANCE							
Thickness	20 cm	25 cm	30 cm	35 cm	40 cm	45 cm	50 cm
R (Thermal resistance) m².K.W-1	3,85	4,81	5,77	6,73	7,69	8,65	9,62
Thermal phase shift* (400 hours)	11,1	13,8	16,6	19,4	22,1	24,9	27,7

TECHNICAL DATA		
Dry Density in kg/m⁻³	λ (W.m⁻¹.K⁻¹)	Fire resistance
220 m 250	0,052	B-s1, d0

1 bag BATICHANVRE® 25 kg + 1 bale of ISOCANNA® 20 kg + Water 40/50 L

RENDERS

THERMAL RESISTANCE						
Thickness	3 cm	4 cm	5 cm	6 cm	7 cm	8 cm
R (Thermal resistance) m².K.W-1	0,25	0,33	0,42	0,5	0,58	0,67
Thermal phase shift* (400 hours)	2	2,26	3,3	3,9	4,6	5,2

TECHNICAL DATA			
Dry Density in kg/m⁻³	λ (W.m⁻¹.K⁻¹)	μ**	Fire resistance
800 m 1 000	0,12	4,5 m⁻¹⁰	A2-s1,d0

4 bags BATICHANVRE® 25 kg + 1 bale of ISOCANNA® 20 kg + Water 120 L

** Thermal inertia is the ability of a material to accumulate heat and then give it back. It makes it possible to obtain a thermal phase shift (shift and reduction over time of a exterior temperature for example). The values presented in the tables below come from the characteristics calculated and measured on our hempcrete formulations. They are expressed in hours over a 24-hour reference period.*
*** The vapour permeability coefficient μ represents the thickness of an equivalent air layer with the same vapour permeance.*

BATICHANVRE®
25 kg bag

1 Bale
ISOCANNA®
20 kg

EXCELL

MIXING PREPARATION

In a concrete mixer, add the water and the BATICHANVRE®, mix for 3 to 5 minutes (the milk of lime obtained should be homogeneous and without lumps) then add the decompressed hemp and mix in order to get a homogeneous mixture which will have a consistency of agglomerated crumbs. When the right consistency is obtained, stop the mixer.

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