TECHNICAL DATA SHEET

SAINT-ASTIER

LIME, LIFELONG EXCELLENCE

TRADÉCO® HL 3,5

WHITE LIME

TECHNICAL LIME BINDER

THE **BENEFITS**

- HIGH WORKABILITY
- EXCELLENT VAPOUR PERMEABILITY
- GREAT FLEXIBILITY
- RESPECTS THE COLOUR OF THE LOCAL SANDS
- COMPATIBLE WITH HEMP

SUITABLE FOR

> Renders & plasters
> Bedding
> Pointing
> Finishing
> Hemp renders

PACKAGING

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

PRODUCT COMPOSITION

Formulated from Saint-Astier® hydraulic lime.

SHELF LIFE & GUARANTEE

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

25 KG | HL 3,5 | NF-EN 459

www.stastier.co.uk

TRADÉCO®

MACHINES
consult us

PERFORMANCE

MAIN DATA	
Retained at 90µm	< 1%
Retained at 200µm	< 0,5%
Dry density (powder) Y=88	< 600 g/l

TESTS ON MORTAR PREPARED ACCORDING TO EN 459-2	
Compressive strength at 7 days 28 days	5.5 N/mm² 7 N/mm²
Flexural strength at 7 days 28 days	1.3 N/mm² 2 N/mm²

TEST RESULTS/ RATIO 1:2 SAND 0/3MM		1:2.5
Wet density (g/l)	1,600	1,700
Setting time (hours)	2 to 4,5	2 to 4,5
Water retention (%)	87	85
Compressive strength At 7 days (MPa) At 28 days (MPa)	 3.4 4.5	 2.55 3.35
Flexural strength 28 days (MPa)	0.95 – 1.3	0.71 - 0.97
Bonding strength (tensile - MPa)	0.37 - 0.5	0.28 - 0.37
Density At 7 days (g/l) At 28 days (g/l)	 1,550 1,500	 1,575 1,550
Shrinkage At 7 days (mm/m) At 28 days (mm/m)	 0.72 0.88	 0.7 0.8
Thermal conductivity at 28 days (W/m.K)	λ 0.49 tabulated EN 1745	λ 0.49 tabulated EN 1745
Elasticity Moduli at 28 days (MPa)	5,000	4,500
Capillarity 28 days (g/dm² x min1/2)	0.74	0.8
Vapour permeability (g.m²/hour.mmHg)	0,8	0,85

APPLICATION

Mechanical spraying is possible, please contact us.
Before starting, always try on a small test area.

WORKING TEMPERATURE

Not below 8°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.

PREPARATION

Up to 5 minutes in a conventional drum mixer.

HEALTH & SAFETY

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

Chaux de Saint-Astier
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www.stastier.co.uk - contact_uk@saint-astier.com

TRADÉCO®

3 HOLES

MACHINES consult us

HEMP RENDERS AND PLASTERS

MORTAR PREPARATION

No matter the type and desired finish, the mix has to be done as follows :

> Put all the water in the drum mixer and the TRADÉCO® lime.
> Keep mixing for a few minutes in order to get an homogenous milk of lime.
> Add the decompressed hemp and mix until the mortar get homogenous consistency and regular colour (5 to 15 minutes).
> The mix should be fat and unctuous.

4 TRADÉCO® Lime 25 kg bag + 1 ISOCANNA® Hemp bales 20 kg + 11/12 10 litre bucket

MORTAR APPLICATION

> The hemp/lime coating is applied on a traditional stipple coat 24 hours after its completion.
> Apply the hemp render manually with a trowel or float. Hemp renders are applied in coats of 2 to 3 cm thickness with a delay of 30 to 90 mins between each coat. If the hemp base coat has to receive a mineral render, its surface must be left rough and allowed to dry for 60 to 90 days. The mineral finishing coat can be done with TÉRÉCHAUX® NHL2, TRADÉCO® HL3,5, scratched or sponge finish are possible, surface without joint at max 20 m^2.
> TRADÉCO® final coat can be floated (the base coat hast to set for 3 to 4 days before applying the last coat). TRADÉCO® can also receive limepaint after 60 days of drying.

INSULATING MORTAR TRADÉCO® / ISOCANNA® FEATURES

DRY DENSITY (kg / m^3)	ELASTICITY MODULI AT 28 DAYS (MPa)	COMPRESSIVE STRENGTH AT 28 DAYS (MPa)	THERMAL CONDUCTIVITY ($W.m^{-1}.K^{-1}$)	THERMAL RESISTANCE FOR 8 CM WIDTH ($m^2.K.W^{-1}$)	FIRE RESISTANCE
500 to 800 depending on settling	> 20	> 0,3	λ = 0,12	R = 0,67	A2 - s1 , d0

TRADITIONAL RENDERS & PLASTERS

BUILDING, POINTING

SOFT MASONRY ELEMENT AND POINTING	*Soft stones (limestone, sandstone...)*	1 TRADÉCO® + 2,5/3 Sand 0/4	*Hollow or solid bricks or Old bricks*	1 TRADÉCO® + 2 Sand 0/4	

RENDERING/PLASTERING

MANUAL APPLICATION AND SABLON*	STIPPLE COAT	BASE COAT	TOP COAT	
	3 to 5 mm	10 to 20 mm	Scratch, sponge (5 to 7 mm)	Floated 5 mm max (only manual app)
OLD MASONRY	1 TRADÉCO® + 1,5 Sand 0/4	1 TRADÉCO® + 2 Sand 0/4	1 TRADÉCO® + 2/2,5 Sand 0/4	1 TRADÉCO® + 2,5/3 Sand 0/2
ESTIMATED LIME CONSUMPTION	2 kg / m^2 for 5 mm	3,5 kg / m^2 for 10 mm	3 à 4 kg / m^2 for 10 mm	1,5 kg / m^2 for 5 mm
WAITING TIME BETWEEN COATS	2 days	At least 7 days		

*For application with a render gun, it is possible to not use a stipple coat, it's important use the right dosage of sand.

MECHANICAL APPLICATION (screw pump machine)	1st COAT	TOP COAT (contact us)	
	15 to 20 mm	Scratch, sponge (5 to 7mm)	Floated 5 mm max (only manual app)
OLD MASONRY	1 + 7/8 Sand 0/4	1 + 8/9 Sand 0/2 to 0/4	1 + 9/10 Sand 0/2
ESTIMATED LIME CONSUMPTION	5 to 6,5 kg / m^2 for 15 mm	3 to 4 kg / m^2 for 10 mm	1,5 kg / m^2 for 5 mm
WAITING TIME BETWEEN COATS	At least 7 days		

COMPLEMENTARY INFORMATION

> Plastic floats are not recommended. Smoothed finish, maximum thickness 5 mm.
> After rain, nuances could appear on traditional coating. This phenomenon demonstrates that lime mortar has a role as a hygrometric regulator.
> Quantity of mixing water: depending on the sand humidity and the dosage.
> Additional information on www.stastier.co.uk

EQUIVALENCE

1 TRADÉCO® 25 kg Bag = 4 10 litre bucket

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