

# i.pro

## CHAUX RABOT

**Natural hydraulic lime NHL 5**

*i.pro CHAUX RABOT is conform to the European Standard of building lime (EN 459-1). Bright, i.pro CHAUX RABOT allows realization of many works in restoration and new building (natural projects and green building).*



■ Render ■ Masonry ■ Roof ■ Tiles ■ Lime concrete

### Properties

Properties of natural hydraulic lime are numerous:

- It allows buildings to "breathe", and does not trap moisture in the walls
- Lime re-absorbs the carbon dioxide (CO<sub>2</sub>) emitted by its calcination (firing), thus partially offsetting the large amount emitted during its production
- Lime is a useful material for all material (stone, bricks ...) it doesn't damage. Indeed, i.pro CHAUX RABOT is particularly useful in designing mortars and renders to complement the strength of natural stone and soft brick construction
- Lime mortars are very workable
- It has a low modulus of elasticity
- Stone and brickwork bonded with lime is easier to re-use
- Double set avoid cracks and shrinkage

### Uses

- Masonry
- Tiles
- Roof
- Lime concrete
- Render
- Repointing
- Half Timbering-Shuttering-Skeleton construction
- Roof insulation (hemp and lime)



## Main characteristics

	Unit	Average values	Conformity to Standard	
			Mini	Maxi
<b><u>Physical properties</u></b>				
Fineness 90 $\mu$	%	4,8	-	15
Fineness 200 $\mu$	%	0,6	-	2
Expansion	mm	1,2	-	2
Bulk density	g/cm <sup>3</sup>	0,728	-	-
Real density	g/cm <sup>3</sup>	2,67	-	-
Blaine value	cm <sup>2</sup> /g	8698	-	-
Water content	%	0,53	-	2
<b><u>Mechanical properties</u></b>				
Beginning of set	min	290	60	-
End of set	min	575	-	900
Mechanical strength at 7 days	MPa	3,01	2	-
Mechanical strength at 28 days	MPa	5,43	5	15
<b><u>Chemica properties</u></b>				
SO <sub>3</sub>	%	0,52	-	2
Free lime content	%	27,1	15	-

## Packaging

Paper sacks of 35 kg. Pallets of 40 bags (1400 kg) – Bags of 48 Liters

## Advices

- Always remove excess mortar at the bottom of the wall
- Always take care of excessive weather conditions (rain and sun) and protect walls
- Work between 8° and 30°C
- Protect the supports during and after the application
- Store bags in dry conditions, one year after production date, mentioned on the bags

## Contraindications

- Don't make any reinforced concrete with NHL
- Don't apply on following supports: gypsum, old walls with salt (use i.tech RINZAFFO and i.tech VENEZIANO ) or timber frame (choose i.pro MUR CENTENAIRE)

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