

i.pro RÉNOBAT

Natural hydraulic lime NHL 5

i.pro RÉNOBAT complies with the European Standard on building lime (EN 459-1). i.pro RÉNOBAT is bright, and can be used in many restoration and new building works (green building).



■ Render ■ Masonry ■ Roof ■ Tiles ■ Lime concrete

Properties

Natural hydraulic lime has a number of properties:

- It allows buildings to "breathe", and does not trap moisture in the walls
- Lime re-absorbs the carbon dioxide (CO₂) emitted by its calcination (firing), thus partially offsetting the large amount emitted during its production
- Lime is a useful component for all materials (stone, bricks, etc.). It is not damaging. Indeed, i.pro RÉNOBAT 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 elasticity modulus
- Stone and brickwork bonded with lime are easier to re-use
- Double setting to prevent 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
<u>Physical properties</u>				
Fineness 90 μ	%	5.3	-	15
Fineness 200 μ	%	0.7	-	2
Expansion	mm	1.3	-	2
Bulk density	g/cm ³	0.772	-	-
Real density	g/cm ³	2.75	-	-
Blaine value	cm ² /g	8856	-	-
Water content	%	0.91	-	2
<u>Mechanical properties</u>				
Beginning of set	min	142	60	-
End of set	min	191	-	900
Mechanical strength at 7 days	MPa	2.65	2	-
Mechanical strength at 28 days	MPa	5.34	5	15
<u>Chemical properties</u>				
SO ₃	%	1.23	-	2
Free lime content	%	18.5	15	-

*Statistical datas, non contractual

Packaging

35-kg paper bags. Pallets of 40 bags (1400 kg) – 48-Litre bags



Advice

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

Contraindications

- Do not make reinforced concrete with NHL
- Do not apply on the following substrates: gypsum, old walls with salt (use i.tech RINZAFFO and i.tech VENEZIANO) or timber frames (choose i.pro MUR CENTENAIRE)

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