

LC****® - PURE NHL 3.5



PURE NHL 3,5 - LC **** ®

LC**** IS A 100% PURE AND NATURAL LIME WITHOUT ADDITIVES. THANKS TO THE REGULAR SILICIOUS LIMESTONE FROM THE LARGE SAINT-ASTIER QUARRY AND ITS CONSTANT BURNING AND SLACKING PROCESS.

THIS MODERATELY HYDRAULIC LIME HAS A NATURAL LUMINANCE „WHITENESS“ WHICH PRESERVES THE SAND COLOR IN THE FINAL MORTAR.

ITS VERSATILITY RESULTS FROM A BALANCE BETWEEN ITS INTRINSIC LIME PROPERTIES OF PLASTICITY AND BREATHABILITY AND ITS LEVEL OF HYDRAULICITY CREATING A PROGRESSIVE COMPRESSIVE STRENGTH WITHOUT ANY ADDITION OF CEMENT.



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BS-EN
449-1

NHL
3.5

25
KG



Air Quality

Shelf life and Guarantee

12 months from production date if kept sealed in original container and stored in dry conditions at temperatures above 8°C. Manufacturer civil Responsibility.

Suitable backgrounds

Lightweight blocks, brick and stone. LC**** is not recommended for clay substrates. For loose or friable substrate, it may be necessary to consolidate with a hydraulic Limewash or a bonding agent.

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.

Mixing

Can be mixed in a cement mixer or using a whisk. Maintain slow revolutions (about 450-700 rpm) to prevent adding too much air that could change the properties of the mix. Mixing time must be at least 5 minutes until you obtain a uniform consistency with no lumps. Avoid manual mixing as it does not guarantee an optimum mix. Once the mix is ready it should be left to stand for approx. 5 minutes before use to allow proper development of the binder.

General Characteristics

- ✓ **Initial Setting time: 5 to 6 hours**
 - ✓ **Compressive Strength 7 Days: 3 MPa = 30 Kg/cm² (av.)**
 - ✓ **Compressive Strength 28 Days: 7 MPa = 70 Kg/cm² (av.)**
 - ✓ **Density (Volumetric weight) typical: 650 gr./ Litre (av.)**
 - ✓ **Available (free) lime after slaking Ca (OH)₂: > 28%.**
 - ✓ **Whiteness Index: 72 (av.)**
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- ✓ **Recommendation:** If in doubt, always try on a small test area.
 - ✓ **Health and Safety:** Refer to the indication of MSD



Declaration of Performance (DoP):

Essential Specification	Performance	Harmonised Technical Specifications
Natural Hydraulic Lime	NHL 3,5	EN 459-1:2011
Reaction to Fire	Class A1	
Compressive strength 7 days	-----	
Compressive strength 28 days	from 3,5 to 15 MPa	
SO ₃	≤2%	
Free lime	≥25%	
Stability	≤2mm	
Setting time	5 to 6 hours	
Particle size 90 µm	≤ 15%	
Particle size 200µm	≤ 2%	

CE
0333
CHAUX ET ENDUITS DE SAINT-ASTIER
La Jarthe 24110 SAINT-ASTIER
14
N°-DOP-NHL 3,5 A-004
EN 459-1 Natural Hydraulic Lime EN 459-1 NHL 3,5
Application or material for construction, building and civil engineering
The performances which are declared by level or by class are defined through the designation of the construction lime