SECIL NATURAL LIME NHL 2

NHL 2 – NATURAL HYDRAULIC LIME

Lime Stuff
Traditional breathable building & decorating products
01794 884294
Unit 12, Glendale Farm, Southampton Road, Whiteparish, SP5 2QW
www.limestuff.co.uk info@limestuff.co.uk

1. DESCRIPTION

SECIL NATURAL LIME NHL 2 is a natural hydraulic lime, hydraulic binder consisting of calcium hydroxide, silicates and calcium aluminates, obtained by burning marl limestone, followed by milling. *SECIL NATURAL LIME NHL 2* is rated as NHL 2 according to NP EN 459-1.

SECIL NATURAL LIME NHL 2 is a unique binder because in addition to hydraulic setting it also has aerial setting, obtained by carbonation with atmospheric CO_2.

2. FIELD OF USE

In the manufacture of mortars as a single binder or mixed with other hydraulic or aerial binders, giving them workability and flexibility, significantly reducing retraction of hydraulic mortars (eg render mortar).

In the manufacture of rehabilitation mortars, as sole binder, in the execution of exterior and interior renders on old substrates.

3. PRODUCT CHARACTERISTICS

Chemical Characteristics	Value	Standard
Lime available Ca $(OH)_2$	≥ 35,0 %	EN 459-1
Sulphate	≤ 2,0 %	EN 459-1
Physical Characteristics	**Value**	**Standard**
Colour	Beige	-
Free water	≤ 2,0 %	EN 459-1
Loose bulk density	0,65 ± 0,05 kg/dm^3	-
Fineness	90 µm ≤ 15,0 % 200 µm ≤ 2,0 %	EN 459-1
Expandability	≤ 2,0 mm	EN 459-1

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Penetration	> 10 mm and < 50 mm	EN 459-1
Air content	≤ 5,0 %	EN 459-1
Setting time Beginning End	 > 1 h ≤ 40 h	EN 459-1
Colour	Beige	-
Mechanical Characteristics	**Value**	**Standard**
Compressive strength (28 days)	≥ 2,0 and ≤ 7,0 MPa	EN 459-1

4. APPLICATION

a) Manufacture of mortars

The dosage of *SECIL NATURAL LIME NHL 2* in a mortar shall be suitable for the purpose for which it is intended, see examples in number 5.

Premix *SECIL NATURAL LIME NHL 2* with the aggregate and subsequently add water in the appropriate quantity in order to obtain good workability.

b) Restrictions

Do not apply mortars at temperatures below 5˚C and above 30˚C, avoiding the application in situations of high sun exposure and / or under strong winds.

Do not use softened mortars or which have started their setting process.

Avoid fast drying of mortars by watering the support 1 to 2 hours before application and by watering again as soon as the mortar is sufficiently resistant. Repeat the watering process 1, 2 and 7 days later.

c) Complementary Advices

- Excess mixing water is detrimental to the physical characteristics of the mortar;
- The minimum amount of water that allows good workability must always be used;
- The mixing water must be free of any impurities (clays, organic matter), and drinking water should be preferably used;
- Once the ratio to be used for the desired mortar has been determined, keep both the dosages and the kneading time constant.

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5. RECOMMENDED RATIOS

MORTAR RECOMMENDED RATIOS	RAW MATERIALS (VOLUME)				WATER	COMPRESSIVE STRENGTH (MPa)			MODULUS OF ELASTICITY (MPa)
	NHL 2	Fine silica (< 0,6 mm)	Fine silica (< 1,2 mm)	Silica sand (< 2,5 mm)	% weight of the total	7 days	28 days	90 days	28 days
Coating mortar (binder:aggregate) = (1:3)	1	1,5	1,5	-	15,9	0,3	0,6	0,9	2700
Coating mortar (binder:aggregate) = (1:4)	1	2	2	-	16,6	0,1	0,3	0,4	2060
Coating mortar (binder:aggregate) = (1:3)	1	3	-	-	17,2	0,2	0,6	1,8	2460

6. PACKAGING AND VALIDITY

Packaging

Paper bags of 25 kg in plasticized pallets; Bulk for use in silo system.

Validity

12 months provided the conditions of the original packaging remain unaltered and in good storage conditions, protected from extreme temperature and humidity.

7. HEALTH AND SAFETY

(DOES NOT REPLACE CONSULTATION OF THE PRODUCT SAFETY DATA SHEET)

- Irritating to skin;
- Causes serious eye damage;
- May irritate the respiratory system;
- Keep out of children's reach;
- Use protective gloves / protective clothing / eye protection / face protection;
- Avoid breathing dust/ vapours.

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EN 459-1:2011
Certification: 1328-CPR-0215
Natural Hydraulic Lime – NHL2

Declaration of performance DOP. 14001

Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.

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