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VERIFICATION OF DETAILS RESERVED BY AN LBC CONDITION APPLICATION

P01

APRIL 25, 2025

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On behalf of Wrexham County Borough Council

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1. CONDITION NO. 10

1.1. DETAILS OF WALL & FLOOR FINISHES AND MECHANICAL & ELCTRICAL INSTALLATIONS

Prior to the commencement of works on internal spaces GL.01-6, FL.01, FL.02, FL.11 and FL.12 the following information shall be submitted to and approved by the Local Planning Authority:

- *Full details of wall finishes and methodology unless like- for-like painting is taking place;*
- *Full details of floor finishes and methodology, including repairs an coating to existing floors where they are exposed or being used as a means of protecting the existing;*
- *Full details of the of proposed mechanical and electrical installations. Penetrations through walls and ceilings where there are principal features such as cornices shall be marked on a drawing or annotated photographs. Details of any surface mounted trunking shall also be provided.*

The development shall be carried out in complete accordance with the approved details.

1.2. WALL FINISH DETAILS

All existing internal walls are lime plastered and are generally in good condition. These walls will be lightly sanded and prepared for painting with a mineral based breathable paint. New lime plaster will be used to infill any holes within the existing walls or replace any lime plaster in need of replacement.

Detailed product datasheets for included below for the lime plaster and mineral based breathable paint to be used.

1.3. FLOOR FINISH DETAILS

Refer to proposed floor finish plans for details

1.4. MECHANICAL & ELECTRICAL INSTALLATION DETAILS

Refer to proposed ceiling plans for containment route strategy and MEP drawings for the mechanical and electrical installations

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Lime Green Fine Stuff is a traditional lime putty plaster for the highest quality internal plaster finishes.

General Information

Lime Green Fine Stuff ready mixed plaster is for highest quality work in traditional buildings. Made from traditional fat lime, chalk and sands it is the ideal choice for expert plasterers to create a flawless finish.

Packaging

Available in 10kg tubs.

Storage and Shelf Life

Store in a frost-free place and keep the tubs airtight, with the plaster under a thin layer of water. The plaster will keep indefinitely stored correctly.

Coverage

One tub will cover approximately $3m^3$ at 3mm thick.

Surface Preparation

Lime Green Fine Stuff should only be applied to perfectly flat and uniform backgrounds; never attempt to use this product as a levelling coat. If applying over new plaster floating coats they must be firm and set before application, but still 'green'.

Suitable undercoats include Lime Green Coarse Stuff, Lime Green Duro or Lime Green Ultra. Ensure they are applied to a level flat finish and lightly keyed. Damp down with a mist of clean water beforehand.

Mixing

If necessary, rework before use with a drill and paddle. Do not add anything else. Do not use below 8°C or above 25°C.

Application

Lime Green Fine Stuff should be applied using traditional lime plastering techniques and tools. It is not suitable for DIY plastering.

Once firm but not dry use a soft dampened brush to brush the surface in all directions and with one final brush using a semi dry brush to give the plaster a surface suitable for painting. Do not apply too great pressure or overwork polishing the surface for too long as it will lead to crazing.

Curing

Preventing the plaster from drying out too quickly is the key to the success of the application. Lightly spray the base coat if it is too hot or drying out rapidly, and on old surfaces which are very dry a primer may be needed for suction control. During cold weather supplementary heating will be needed to keep the room temperatures above the minimum of 8°C if plastering is to continue.

Painting

The system is a vapour open and breathable. It is important that only vapour permeable paints are used to decorate it. Plenty of time must be allowed for carbonation if using emulsion, oil or silicate paints; allow one week per 5 mm of plaster. Only limewash may be applied immediately.

Lime Green Products Ltd. Coates Kiln, Stretton Road, Much Wenlock TF13 6DG.
Tel: 01952 728611 enquire@lime-green.co.uk www.lime-green.co.uk

ISOVIT LIME

FIXING AND LEVELLING MORTAR EXCLUSIVELY NHL-BASED FIBRO-REINFORCED SKIM

.1. DESCRIPTION

ISOVIT LIME is a surface fixing and levelling mortar for ETICS systems or for mesh plastering renovation on old surfaces, whose base link is exclusively Natural Hydraulic Lime.

2. USED FOR

ISOVIT LIME is especially suitable for fixing and surface regularization, allowing the adhesion of panels in exterior thermal insulation systems, ETICS systems, with high permeability to water vapour, such as wood fibre (WF), cork black agglomerate (ICB) or mineral wool (MW) panels. Masonry, wood, cement block and/or hydraulic base surfaces, such as concrete and plasters, are permissible for receiving these systems. This mortar is also suitable for reinforced renovation plasters on old surfaces, thanks to its excellent permeability to water vapour.

ISOVIT LIME is appropriate for the renovation of painted or ceramic-coated surfaces since it permits the adhesion of external thermal insulation systems directly onto this type of surface with the complementary application of *ISOVIT Bucha* type mechanical fixings.

For non-standard applications or special circumstances you are advised to contact our Technical Commercial Service.

3. PRODUCT CHARACTERISTICS

Powder product	Value	Standard
Colour	Natural	-
Granulometry	<1.0 mm	-
Paste product	**Value**	**Standard**
Mixing water	31.5 % ± 1.0 %	-
Theoretical consumption	3.0 a 5.0 kg/m^2 – fixing 1.2 kg/m^2/mm– levelling	-
Hardened Product	**Value**	**Standard**
Compressive strength	≥ 5.0 MPa	EN 1015-11
Flexing Resistance	≥ 2.0 MPa	EN 1015-11
Adherence to brick/block	≥ 1.2 MPa/A and B	EN 998-1
Adhesion to insulation board, EPS	≥ 0.1 MPa Leakage within the insulation	-
Adhesion to insulation board, wood fibre panel	≥ 0.1 MPa Leakage within the insulation	-
Density	1200 ± 100 kg/m^3	EN 1015-10

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seciltek.com

Hardened Product	Value	Standard
Capillarities	Class W_c2	EN 1015-18
Vapour permeability	≤ 10 μ	EN 1015-19
Reaction to fire	Class A1	EN 998-1
Heat conductivity ($\lambda_{10, dry}$)	0.45 W/m.°C (P=50 %)	NP EN 1745

4. APPLICATION

a) Preparation of surfaces

Surfaces must be hardened, clean of dust, releasing agents, crumbling or unstable materials, efflorescences, as well as any type of material affecting the conditions of adhesion.

The surfaces must be checked with a two-metre ruler, ensuring that there are no irregularities greater than 1 cm. If there are, the surfaces should be smoothed with ***REDUR H2FIBRA*** plaster on new constructions, or ***REABILITA CAL RB*** in the restoration of old buildings.

Previously applied plasters must have a “trowelled" surface and cure for about 28 days, protected from the weather.

For application on painted surfaces, the paint must have sufficient adhesion to support the new coating.

Should the surface be an old ceramic coating, it must be ensured that it is sturdy, smooth and all parts adhere well to the surface. If this is not the case, the loose parts should be removed and the coating smoothened.

If necessary, clean the surface with suitable detergents to remove oils and residues accumulated on the surface.

b) Preparation of the mixture

ISOVIT LIME should be mixed with 6.1 to 6.5 litres of clean water (preferably drinking water) for each bag of product, using an electric mixer, until a smooth paste is obtained.

c) Application

Apply to masonry and uneven surfaces (gradient no more than 1 cm every 2 metres)

Bond the panels (dimensions 1.0 x 0.5 m) with a broken line of mortar around the perimeter, adding at least two points of mortar in the centre of them. Provide for mechanical fixing with ***ISOVIT Bucha*** (recommended minimum – 6 per/m²).

Apply to even plaster or concrete surfaces

Simple continuous adhesion should be carried out using a 10 mm jagged trowel, preferably placing the mortar on the back face of the panels. Provide for mechanical fixing with ***ISOVIT Bucha*** (recommended minimum – 6 per/m²).

Recommendations for adhesion

The procedures for the development of adhesion should ensure uniformity of surfaces, that the panels are level and without gaps and that there is no mortar between them.

Regularisation

Skim ***ISOVIT LIME*** mortar on thermal insulation panels, conveniently arranged and adherent to the surfaces.

Apply a first jagged layer and immediately proceed to the installation of a fiberglass mesh with characteristics appropriate to the application – ***ISOVIT REDE 160/343***. The second layer should be applied after complete hardening of the first in order to provide the even surface needed to receive the final finish.

d) Restrictions

ISOVIT LIME should not be applied at ambient and surface temperatures below 5 ºC and above 30 ºC.

The application of the panels should not be carried out under direct solar radiation, in strong wind or high temperatures.

The surface of the front panels must be protected with trim solutions that effectively protect the materials from water ingress.

e) Complementary advice

Do not use ***ISOVIT LIME*** to bond joints between insulation panels.

The water in the mix must be free of impurities (clay, organic material, etc.), preferably being of drinking quality.

No grout should be applied that has started the process of setting. Do not soften the mortar by adding water after preparation.

Do not add any other products to the mortar, and ***ISOVIT LIME*** should be applied as shown in the original packaging.

Do not apply in temperatures above 30 ºC or below 5 ºC.

Do not apply on horizontal surfaces or on inclines less than 45º.

Protect the upper edges of the rainwater coating.

5. PACKAGING AND VALIDITY

Packaging

Plastic pallets of 60 x 20kg paper bags.

Validity

12 months, provided that the original packaging remains intact and stored against extreme temperatures and damp.

6. HYGIENE AND SAFETY

(DOES NOT PRECLUDE THE PRODUCT SAFETY DATA SHEET)

- Irritant to the eyes, respiratory system and skin
- May cause sensitivity in contact with the skin;
- Do not inhale the dust;
- Avoid contact with the sin and eyes;
- In case of contact with the eyes, wash immediately with plenty of water and consult a specialist;
- Wear suitable protective clothing and gloves
- Keep out of the reach of children.

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ISOVIT LIME

EN 998-1
Industrial mortar for general use (G) for adhesion insulation panels

Declaration of performance DOP.13020

Since the conditions of application of our products are out of our control we cannot be held responsible for their incorrect use. It is the customer's responsibility to verify the suitability of the product for its intended purpose. In any case our liability is limited to the value of the goods provided by us. The information contained in this factsheet may be changed without notice. In case of doubt, and should you require further clarification, we recmmend you contact our technical services.

Revision August 2022
FT 13020.01

Secil NATURAL LIME NHL 2

NHL 2 – **NATURAL HYDRAULIC LIME**

TC.E.005.2

1. DESCRIPTION

Secil NATURAL LIME NHL 2 is a natural hydraulic lime, hydraulic binder constituted by silicates, calcium aluminates and calcium hydroxide, obtained by firing marl limestone followed by grinding. ***Secil NATURAL LIME NHL 2*** is classified as NHL 2 according to NP EN 459-1.

Secil NATURAL LIME NHL 2 is a singular binder, because apart from the hydraulic setting, it also presents air setting, obtained by carbonation with atmospheric CO_2.

2. FIELD OF USE

In the fabrication of mortars, as sole binder or in admixture with other hydraulic or air binders, giving them workability and flexibility, reducing significantly the retraction of hydraulic mortars (for example, mortar for render, finishing or grout of old masonries). In the fabrication of mortars for rehabilitation, as sole binder, in the execution of external and internal renders on old substrates.

3. PRODUCT CHARACTERISTICS

CHEMICAL CHARACTERISTICS	VALUE	STANDARD
Free lime $Ca(OH)_2$	≥ 35,0 %	EN 459-1
Sulfate	≤ 2,0 %	EN 459-1
PHYSICAL CHARACTERISTICS	**VALUE**	**STANDARD**
Color	Beige	-
Free water	≤ 2,0 %	EN 459-1
Apparent density	0,65 ± 0,05 kg/dm^3	-
Density	2,7 g/cm^3	-
Fineness	90 µm ≤ 15,0 % 200 µm ≤ 5,0 %	EN 459-1
Expansion	≤ 2,0 mm	EN 459-1
Penetration	> 10 mm and < 50 mm	EN 459-1
Air level	≤ 5,0 %	EN 459-1
Setting time Initial Final	> 1 h ≤ 40 h	EN 459-1
MECHANIC CHARACTERISTICS	**VALUE**	**STANDARD**
Compressive strength (28 days)	≥ 2,0 and ≤ 7,0 MPa	EN 459-1

4. APPLICATION

FABRICATION OF MORTARS

The dosing of ***Secil NATURAL LIME NHL 2*** in a mortar should be appropriate to the intended use. In mortars for render and laying ***Secil NATURAL LIME NHL 2,*** has a major role as sole binder.

Premix ***Secil NATURAL LIME NHL 2*** with the aggregate and afterwards add the right quantity of water to obtain a good workability.

Restrictions

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

Do not use weakened mortars or that have already started the setting process.

Avoid fast dry of the mortars, by watering the substrate, 1 to 2 hours before the application and as soon as the mortar presents enough resistance. Repeat watering 1, 2 and 7 days later.

Further advice

- The excess of mixing water is damaging to the physical characteristics of the mortar;
- Always use the minimum quantity of water to allow good workability;

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Secil NATURAL LIME NHL 2

NHL 2 – **NATURAL HYDRAULIC LIME**



Quarry



Lime factory



Fired stone

- The mixing water should be free of impurities (clay, organic matter) and preferably be drinkable;
- Once the trace to use for a mortar is determined, keep the dosing constant as well as the mixing time.

6. PACKAGING AND VALIDITY

Packaging

- Paper bags of 25kg 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;
- May cause serious injuries in the eyes;
- May cause irritation to respiratory system;
- Avoid breathing dust/ vapors.
- Keep out of children's reach;
- Wear protective gloves and clothing/ eyes protection/ facial protection;

Being in 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.

Review of January 2014
TC.E.005.2

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Secil Natural Lime NHL 2

EN 459-1:2011

Certificate: 1328-CPR-0215

Natural Hydraulic Lime – NHL 2

Declaration of performance TC.E.0637

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www.secilargamassas.pt

Secil NATURAL LIME NHL 3,5

NHL 3,5 – **NATURAL HYDRAULIC LIME**

1. DESCRIPTION

Secil NATURAL LIME NHL 3,5 is a natural hydraulic lime, hydraulic binder constituted by silicates, calcium aluminates and calcium hydroxide, obtained by firing marl limestone followed by grinding. ***Secil NATURAL LIME NHL 3,5*** is classified as NHL 3,5 according to NP EN 459-1.

Secil NATURAL LIME NHL 3,5 is a singular binder, because apart from the hydraulic setting, it also presents air setting, obtained by carbonation with atmospheric CO_2.

2. FIELD OF USE

In the fabrication of mortars, as sole binder or in admixture with other hydraulic or air binders, giving them workability and flexibility, reducing significantly the retraction of hydraulic mortars (for example, mortar for render, finishing or grout of old masonries).

In the fabrication of mortars for rehabilitation, as sole binder, in the execution of external and internal renders on old substrates.

3. PRODUCT CHARACTERISTICS

CHEMICAL CHARACTERISTICS	VALUE	STANDARD
Free lime $Ca(OH)_2$	≥ 25,0 %	EN 459-1
Sulfate	≤ 1,0 %	EN 459-1
PHYSICAL CHARACTERISTICS	**VALUE**	**STANDARD**
Color	Beige	-
Free water	≤ 1,0 %	EN 459-1
Apparent density	0,60 ± 0,05 kg/dm^3	-
Density	2,7 g/cm^3	-
Fineness	90 µm ≤ 15,0 % 200 µm ≤ 5,0 %	EN 459-1
Expansion	≤ 2,0 mm	EN 459-1
Penetration	> 10 mm and < 50 mm	EN 459-1
Air level	≤ 5,0 %	EN 459-1
Setting time Initial Final	> 1 h ≤ 30 h	EN 459-1
MECHANIC CHARACTERISTICS	**VALUE**	**STANDARD**
Compressive strength (28 days)	≥ 3,5 and ≤ 10,0 MPa	EN 459-1

4. APPLICATION

FABRICATION OF MORTARS

The dosing of ***Secil NATURAL LIME NHL 3,5*** in a mortar should be appropriate to the intended use. In mortars for render and laying ***Secil NATURAL LIME NHL 3,5,*** has a major role as sole binder.

Premix ***Secil NATURAL LIME NHL 3,5*** with the aggregate and afterwards add the right quantity of water to obtain a good workability. For guidance, use a relation water binder of 0,6 expressed in volume.

Restrictions

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

Do not use weakened mortars or that have already started the setting process.

Avoid fast dry of the mortars, by watering the substrate, 1 to 2 hours before the application and as soon as the mortar presents enough resistance. Repeat watering 1, 2 and 7 days later.

Further advice

- The excess of mixing water is damaging to the physical characteristics of the mortar;
- Always use the minimum quantity of water to allow good workability;

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Secil NATURAL LIME NHL 3,5

NHL 3,5 – **NATURAL HYDRAULIC LIME**



Quarry



Lime factory



Fired stone

- The mixing water should be free of impurities (clay, organic matter) and preferably be drinkable;
- Once the trace to use for a mortar is determined, keep the dosing constant as well as the mixing time.

6. PACKAGING AND VALIDITY

Packaging

- Paper bags of 25kg 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;
- May cause serious injuries in the eyes;
- May cause irritation to respiratory system;
- Avoid breathing dust/ vapors.
- Keep out of children's reach;
- Wear protective gloves and clothing/ eyes protection/ facial protection;

Being in 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.

Review of January 2014
TC.E.085.4

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Secil Natural Lime NHL 3,5
EN 459-1:2011
Certificate: 1328-CPR-0215
Natural Hydraulic Lime – NHL 3,5
Declaration of performance TC.E.0915

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8. RECOMMENDED MIXING RATIOS

RECOMMENDED MIXING RATIOS	BINDER AND AGGREGATES				Water	COMPRESSIVE RESISTANCE (MPa)			ELASTICITY MODULUS (MPa)
	NHL 3,5	Fine sílica sand (< 0,6 mm)	Medium sílica sand (< 1,2 mm)	River sand (< 2,5 mm)	% total weight	7 days	28 days	90 days	28 days
Coating mortar (Binder:Aggregate) = (1:3)	1	1	1	1	15,0	0,3	0,9	1,5	3300
Coating mortar (Binder:Aggregate) = (1:4)	1	1,5	1,5	1	15,0	0,2	0,5	0,6	1970

Sol Silicate Masonry Paint

DESCRIPTION

Johnstone's Trade Stormshield Sol Silicate Masonry is a matt finish coating, ideal for external and internal use on lime render and lime plaster surfaces. Johnstone's Trade Stormshield Sol Silicate technology is non film forming and fully breathable which prevents moisture build up and help preserve the surface structure. With excellent water repelling properties to provide long lasting protection against weather and dirt, Johnstone's Trade Stormshield Sol Silicate Masonry naturally resists microorganisms such as mould and has limited combustibility* due to its low organic content. Ideal for use directly over most previously painted, rendered, or bare masonry surfaces including lime render/plasters, silicone renders and silicone paints.

*Achieves A2, s1, do limited combustibility according to EN 13501-1:2019-02. Please contact the PPG Technical Advisory team for more information.

RECOMMENDED USES



Interior and exterior masonry surfaces including bare masonry surfaces, lime render/plasters, brick, block, areas that require higher than average permeability and most previously painted surfaces.

COLOUR RANGE

White and pastel colours.

FINISH

Matt

VOLUME SOLID

33%

COVERAGE



Johnstone's Trade Stormshield Sol Silicate Paint will cover approximately 6-9 square metres per litre depending on the nature and porosity of the surface being painted.

FILM THICKNESS

100 um

DRYING TIME



Touch dry in 2 hours. Recoatable after 4 hours under normal, well ventilated conditions.

TRANSPORTATION & STORAGE

To avoid the risk of spillage, always store and transport in a secure upright position. Do not use empty container for storing food. PROTECT FROM FROST.

Cleaner

Cleaner: Clean water.

VOC CONTENT

EU limit value for this product (Cat A/a): 30g/l (2010). This product contains max 20g/l VOC.



KEY PROPERTIES

- Ideal for preserving lime render surfaces
- Fully breathable and non-film forming
- Ultimate weather protection

PREPARATION

All surfaces to be painted should be clean, dry and free from loose and flaking material. Repair cracks and defective areas and treat fungal or algal growth with Johnstone's Trade Professional Sterilisation Wash as directed. If the surface is of a friable nature, stabilise with Johnstone's Trade Sol Silicate Primer as directed, do not use any other primer as it will not be compatible with the system. When applying the first coat direct to new, untreated or porous surfaces, dilute the paint with approximately 5% water. Wear a suitable face mask when creating dust. Due to high alkalinity levels protect all bare skin with suitable PPE.

For more information and free Johnstone's Trade datasheets call 01924 354354 or visit www.johnstonestrade.com.

APPLICATION



Ensure good ventilation during application and drying. Do not breathe spray. Wear respiratory protection and protect eyes and skin with appropriate PPE. Stir well. Important: Due to the alkaline corrosive effect of the paint, care must be taken to protect parts of the building that do not need to be painted, such as any metal work, doors and windows.

Easy to apply by brush, roller and by airless spray. If more than one can of a colour is to be used in the same area, intermix before use. Do not apply when air or surface temperatures are below 8ºC or when rain is imminent.

CLEANING



Remove as much product as possible from application equipment before cleaning. Replace lid firmly. Clean equipment immediately after use with warm soapy water and rinse thoroughly. Some local authorities have special facilities for the disposal of waste coatings. Do not empty product into drains or watercourses.

PRECAUTIONS

- Keep out of reach of children
- Avoid contact with skin and eyes
- Do not ingest
- Do not breathe spray. Wear respiratory protection
- If medical advice is needed have container or label to hand
- Please refer to Product Label & Safety Data Sheet (SDS) for hazard warnings and information on safe handling/use/transport/storage/disposal/emergency
- SDS available : www.johnstonestrade.com or call 01924 354354

SIZE

5ltr