

SMET NHL 3.5 – Moderately Hydraulic Lime Binder

SMET NHL 3.5 is a high quality, pure Natural Hydraulic Lime binder, produced under ISO 9001 and ISO 14001 systems to EN 459-1. The moderate hydraulic strength development of SMET NHL 3.5 makes it suitable for producing lime mortars for masonry work, rendering, plastering base coats and limecrete.

- Historical, gypsum and cement free NHL
- Produces highly breathable mortars
- Highly sulphate resistant
- Low-stress hardening process
- Excellent subsequent hardening
- High water retention and elasticity in produced mortars
- Excellent bond properties to masonry
- EN 459-1

Field Of Application

A moderately hydraulic lime binder for the production of mortars particularly suited for ecological new builds, restoration and preservation works. The product's special composition allows the mortar product to breathe and also permits constant hygrometric exchange between the substrate and the environment.

Production of Mortars For Masonry

Binder : sand ratio: from 1 : 1.5 to 1:3 depending on site and material conditions, joint size and sand grading. Always use well graded clean sands (3 - 4mm down to 75 microns).

Production of Mortars For Rendering

1. Scud Coat (3-5mm) Binder : Sand ratio: 1 : 1.5
2. Base Coats (10mm) Binder : Sand ratio: 1 : 2
3. Finish Coat (5-10mm) Binder : Sand ratio: 1 : 2.5

Attention

SMET NHL 3.5 must be mixed with clean, well graded sands and clean water without additives. Do not mix or apply if the temperature is below +5°C or over 30°C. This product must not be mixed with gypsum or be applied onto gypsum based backgrounds. Avoid over-mixing, as this can adversely affect performance and strength. Material that has set must not be re-mixed. For interior applications, care must be taken when using heating systems. High or rapidly changing temperatures may affect the hydraulic setting reaction of the mortar/render and cause cracking and/or adhesion problems. Delay the implementation of heating systems for as long as possible and heat up interiors gradually. Other unfavourable conditions, such as overly wet backgrounds, low background temperatures and low air temperatures can delay setting. During and after application, protect the mortar/render from adverse weather conditions, such as direct sunlight, strong winds, rain and frost.

Storage

12 months under dry, protected conditions in original unopened packaging.

Disposal Considerations

Waste treatment methods: Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

P501: Dispose of contents/container to a waste collection point. First, NHL needs to be inerted by hardening with water. After use, empty the packing completely.

Safety

Caution. Hazard-determining components of labelling: calcium oxide. See CASEA Health and Safety Data Sheet for further information. Labelling according to Regulation (EC) No 1272/2008. The substance is classified and labelled according to the CLP regulation. Hazard pictograms: **GHS05 GHS07**. Signal word: **Danger**. All standard precautions for the handling of construction materials/chemicals must be taken.

Hazard Statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Technical Information

Compressive Strength, 28 days (EN 459-1)	approx. 4.96 N/mm ²
Bulk Density	0.739 kg/dm ³
Specific Gravity	2.58 g/cm ³
Particle size 90µ	5.6 %
Particle size 200µ	0.6 %
Free Water Content	0.61 %
Soundness	0.9 mm
Free CaO	approx. 30%
SO ₃	approx. 0.72%
Packaging	25 kg

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13 0333-CPR-33404-07 Natural Hydraulic Lime EN 459-1 NHL 3.5 Applications or materials for construction, building and civil engineering The declared performance, by level and classes, is defined by the natural hydraulic lime designation	

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