



Technical Data Sheet

HYDRADUR® NHL 5

Natural Hydraulic Lime
EN 459-1 NHL 5

Mixing ratio for standard-type mortar in room sections:

Mortar group	Mortar for stonework	
	HYDRADUR NHL 5	Sand
I	1	4.5
II	1	3
	Plastering mortar	
PIIa	1	3 to 4

Composition

HYDRADUR® NHL 5 is a natural hydraulic lime acc. to EN 459-1. It is produced through burning and staking a specifically selected shell limestone. The stabilizing process of HYDRADUR® NHL 5 is effected through carbonation and hydraulic hardening. HYDRADUR® NHL 5 is free from cement!

Properties

- historic, cement- and gypsum-free natural hydraulic binder
- high sulphate resistance
- low-tension hardening process
- very good subsequent hardening properties
- no penetration of damaging salts into the masonry
- high elasticity and water retention capacity in mortar produced
- very good side adhesion at stone
- low elasticity module

Application

For the production of plaster- and brick mortar in ecological, biological building construction, in the restoration and preservation of historic buildings.

Delivery

In 25 kg bag
In silo vehicles

Special notes

The air and surface temperature must be at least 5 °C and maximum 25 °C.

Storage

Dry, if possible on wooden shelves and protected against draft. Storage time shall not exceed 6 months.

Technical data

Bulk density:	approx. 0.55 kg/dm ³
free CaO:	approx. 30 %
SO ₃ :	approx. 0.5 %

Compression strength (acc. to EN 459-2):

28 days:	approx. 6.5 N/mm ²
6 months:	approx. 11.0 N/mm ²
12 months:	approx. 14.0 N/mm ²

Safety instructions

HYDRADUR® NHL 5 reacts strongly alkaline with water, thus: Protect skin and eyes, rinse thoroughly with water in case of contact, immediately contact doctor in case of eye contact.

Quality-monitored production

HYDRADUR® NHL 5 is continuously tested in our plant laboratory within the scope of our in-house monitoring with respect to the fulfilment of composition and properties. This will ensure a uniform quality of the product. HYDRADUR® NHL 5 has the quality certificate „Building lime“ and is certified acc. to EN 459-1.