



## 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 big bag
- In silo vehicles

#### Storage

Dry, if possible on wooden shelves and protected against draft. Storage time shall not exceed 3 months.

#### Technical data

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

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

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

#### 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.