

FASZINATION KALK ...

**OTTERBEIN**



... SEIT JAHRTAUSENDEN BEWÄHRT®

Wer auf die Natur setzt,  
kann auf uns bauen.

## Technical Data Sheet

### HYDRADUR® NHL 5

Natural Hydraulic Lime  
EN 459-1 NHL 5

#### 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 <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.

The information supplied in this technical data sheet is based on the know-how gained by our development department and on the collected experience from the field. A liability for the exact validity of the individual data cannot be derived there from, however, because differing processing requirements or processing methods are outside of our scope of influence. With respect to the quality of our products, we refer to the warranty given within the scope of our General terms and conditions. Our field service consultants will be ready to assist you in case of any further questions with respect to the application. We reserve the right to changes improving our products. Version 05-03-2024 (Substitutes all prior versions).