

## **31840 Calix Blanca NHL 3,5**

### **Description**

Calix Blanca NHL 3,5 is a natural hydraulic lime NHL 3,5 (Norm UNI EN 459-1).

### **Raw Material / Production**

Lime marl / Combustion in a shaft kiln with coal or natural gas.

### **Application**

Binding agent for mural mortars, filling material, plaster mortars, natural and colored plasters, restoration mortars, plaster solidifying agents, anti-condensation plasters, fire protection plasters, light plasters, renovation systems, Tadelakt, lime sludge, Romanic limy soils, mortars for terra cotta.

### **Application Area**

Plaster systems for interior and exterior application. For natural based building, for the restoration of historical masonry walls and renovation of humid areas. Calix Blanca is suitable for construction methods which enable the regulation and natural drying process.

### **Compatibility / Miscibility**

Binding agents: Pit lime, lime hydrate, white cement, Portland cement, casein and cellulose.  
Additives: Crushed stones, sand, stone powders, perlite, vermiculite, charcoal, wood fiber, polystyrene, pigments which are fast to lime.  
Reinforcement: Wire, reed, meshed metal baffle, hemp, glass fiber reinforced plastics.

### **Non-Compatibility**

Binding agents: Plaster, anhydrite, sodium silicate, high amount of clay.  
Reinforcement: Jute, fiber glass.

### **Plaster Underground**

The underground should be mineral, solid, sustainable and absorbent. The underground should be free from interlayers and gypsum.

Possible undergrounds: Solid brickwork, interior finery (MG P1 - P3), exterior finery (MG P1c).

### **Standard Recipe (PV = part by volume)**

- 1 PV NHL 3,5 and 3-5 PV sand.
- Per m<sup>3</sup>: approx. 300-400 kg NHL 3,5 and 1 m<sup>3</sup> sand (approx. 1.5 tons)
- For each 1 mm plaster thickness per m<sup>2</sup>: approx. 0.3-0.4 kg NHL 3,5 and 1.5 kg sand (approx. 1 liter).

## TECHNICAL DATA SHEET

### Handling

- Follow the handling directions!
- Prepare plaster samples, wedges.
- Underground has to be wetted sufficiently, 3-layered plaster build-up.
- The plaster has to be protected against rapid drying (burning) and against frost.
- Plaster cannot be handled below 5°C.

### Technical Data

		Specification accord. UNI EN 459-1	Calix Blanca NHL 3,5
Grain fineness 90 µm	%	≤ 1.5	4.8
Grain fineness 200 µm	%	≤ 5	1.7
Volume stability	mm	≤ 2	0.5
Residue water	%	≤ 2	1.0
Solidification time	min	> 60	225
Compressive strength 7 days	MPa		2.2
Compressive strength 28 days	MPa	≥ 3.5 ≤ 10	5.7
Depth of penetration (Plunger)	mm	> 10 < 50	28
Spec. Surface / Blaine	cm <sup>2</sup> /g		11.900
Bulk density	kg/dm <sup>3</sup>		0.6
Degree of whiteness	Y		77
SO <sub>3</sub>	%	≤ 3	1.8
Lime	%	≥ 9	28.5
C <sub>2</sub> S	%		> 20
C <sub>3</sub> S (burnt remains)	%		< 5

### Shelf-Life

6 Months when stored in a dry area.

### Hazard Classification

Xi, Irritating