

Saint-Astier® NHL 5

Technical data sheet

Conforms to European Norms EN 459 and BS 459
 Strength factor: 5 (Eminently hydraulic)
 Residue @ 0.09 mm: 7%
 Density (volumetric weight) typical: 700 gr. / litre
 Available (free) lime Ca(OH)₂ after slaking: 20-22%
 Shelf life: 8-12 months kept sealed and dry

Contains no additives.
 Whiteness index: 67
 Surface cover (cm² per gram): 8000
 Expansion : < 1mm
 Residue of quick lime after slaking: < 1%
 Packing: 25kg. Bags

MORTARS	Compressive strength - N/mm ²				Elasticity Moduli (Mpa)		
	EN459*	1 : 2	1:2.5	1 : 3	1 : 2	1 : 2.5	1 : 3
MIX RATIO	EN459*	1 : 2	1:2.5	1 : 3	1 : 2	1 : 2.5	1 : 3
7 DAYS		1.96	1.00	0.88	n/a	n/a	n/a
28 DAYS	5*	2.20	2	1.5	10800	1100	10000
6 MONTHS		7.31	5.91	5.31	18000	17050	16900
12 MONTHS		9.28	8.84	6.50	18510	17280	16150
24 MONTHS		10.81	8.81	7.8	21500	18020	17430
Consumption for 1m ³ of mortar (kg. +/- 10%)		350	280	233			
EN 459/BS 459 (mortar ratio 1:1 by volume, with ISO 679 Sand)							

Suitable for
 Lime concrete, injection, grouting, rendering, masonry, pointing, capping, mass wall bedding, foundation, sea defence walls, chimney stacks, new build (masonry). Before starting, always try on a small test area.

Mixing
 It can be mixed in cement mixers.

Application
 Application by spray gun is possible. Please consult us.

Working temperatures
 Not below 8°C or above 30°C. Make sure that high suction materials are thoroughly dampened before application. Avoid rapid drying due to high temperatures or strong winds by curing with a light water mist several times a day if necessary. See *Protecting Lime Mortar*.

Reworking
 Possible within 8 hours

Mortar composition

1) For masonry, pointing, capping, mass wall bedding, foundation, sea defence walls, chimney stacs and new build
 Depending on the conditions of the background, the fineness of the sand and the size of the joints, binder/sand ratio values vary between 1:1.5 to 1:2.5. Choose well graded sands (3 or 4mm down to 75 microns). See *Sands for limes mortars*.

2) Rendering
 A. Scratch coat (3 – 5mm) > ratio NHL 5/sand 1:1.5 (cast on recommended)
 B. Undercoat (15-20mm) > ratio NHL 5/sand 1:2* (1:2.5 max)
 *At this dosage the consumption is approx 0.4 kg. of NHL 5 per m² for each mm of thickness
 C. Finishing (5-10mm) > Use *NHL 3.5* or *NHL 2*