

NHL Renders - Some recommended mixes St Astier Natural Hydraulic Limes (NHL)

Background	Stipple Coat Cast or sprayed on only	First Coat	Second Coat	Finish
Prepare background Re-point and dub out as necessary with compatible mortar.	Must be used on poor suction, dense / smooth surfaces. Leave as Cast Cure 2-4 days	Cast, spray or lay on. Well-keyed background. Control suction. Leave Keyed Cure 4-7 days	Cast, spray or lay on. Control suction. Straightening coat. Leave keyed. Cure 7-10 days. Finishing coat in 2 coats work.	Cast, spray or lay on. Control suction Finish as required Cure min 3-10 days
Cob / Earth	Mix 1A - Sand SG3-5mm	Mix 1B - Sand SG10-15mm	Mix 1C - Sand SG5-10mm	Mix 1C - Sand SF / FS3-5mm
Wooden Lath		Mix 2B/3B - Sand SC12-15mm (8-10 cover)	Mix 2C - Sand SC8-10mm	Mix 1C - Sand SF3-5mm Mix 2C - Sand SM5-8mm
Metal Lath		Mix 3B - Sand SC10-15mm (8-10 cover)	Mix 2B - Sand SM10-20mm	Mix 1C - Sand SF3-5mm Mix 2C - Sand SM5-8mm
Soft Brick / Stone Porous Blocks		Mix 1B - Sand SC10-15mm Mix 2B - Sand SC10-15mm	Mix 1B/C - Sand SC/SM10-12mm Mix 2B/C - Sand SC/SM10-12mm	Mix 1C - Sand SF3-5mm Mix 2C - Sand SM5-8mm
Medium Brick / Stone / Blocks	Mix 2A/3B - Sand SG*3-5mm	Mix 2B/3C - Sand SC10-20mm Mix 2B/3B - Sand SG**10-15mm	Mix 2C/3D Sand SC/SM8-12mm Mix 2C/3C Sand SG**6-10mm	Mix 1C - Sand SF3-5mm Mix 2C - Sand SM5-8mm
Dense Brick / Stone/ Blocks/ Concrete	Mix 2A/3A - Sand SG3-5mm	Mix 2B/3C - Sand SC10-20mm Mix 2B/3B - Sand SG**10-15mm	Mix 2C/3D Sand SC/SM8-12mm Mix 2C/3C Sand SG**6-10mm	Mix 1C - Sand SF3-5mm Mix 2C - Sand SM5-8mm

* Stipple coat optional, depending on background suction and conditions.

** For harling applications.

Lime	Mix A 1:1.5	Mix B 1:2	Mix C 1:2.5	Mix D 1:3	Mix E 1:4
NHL 2	1A	1B	1C	1D	1E
NHL 3.5	2A	2B	2C	2D	2E
NHL5	3A	3B	3C	3D	

Sands	Type	Particle Sizes
SG	Sharp gritty	5mm down to 0.075
SC	Sharp coarse	3.35mm down to 0.075
SM	Sharp medium	2.36mm down to 0.075
SF	Sharp fine	1.18mm down to 0.075
FS	Fine soft	0.8mm down to 0.075

Note: a wide variety of finishes can be achieved by adopting different binder and sand mixes to satisfy all requirements.

Coat thickness and optional mix ratios are related to exposure and background conditions and are the responsibility of the designer.

Curing and protection must follow best working practice.

See "**Protecting Lime Mortar**"



For further Guidance, contact your St Astier Distributor.

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