

Rendering NHL with a Spraygun

St Astier Natural Hydraulic Limes (NHL)

This method is particularly suitable to ensure optimum bonding even on smooth surfaces.

Spraying is recognized as the best method of application allowing sharper sands and lower water content in the mortar mix. The speed of work is considerably increased and an average of 100 m² per day per man is quite normal. The pressurized application also allows to build up the thickness of a layer to 25mm. The pressure should not exceed 3.5 Bar*. Two coat work is normally sufficient with the use of a spray gun

	20-25mm	25-35mm	up to 40mm
			(for thickness above 40mm please consult us)
Stipple coat	3-5mm	3-5mm	5-8mm
NHL 5 or NHL 3.5 @ 1: 1.5 Sands: well graded 5mm down to 0.075 Leave 24/48 hours as sprayed to provide good key			
1st coat	10-15mm	15-20mm	20-25mm
NHL 3.5 @ 1:2 or NHL 5 @ 1:2.5 Sands: well graded 3mm down to 0.075			
Leave for a minimum of 4 days depending on weather conditions, coat thickness and the plasterer's judgment. Level using a straight edge and key with criss-cross pattern. If this is also the finishing coat (20-25mm only), depending on the finish required, a finer sand can be used (2mm down to 0.075).			
2nd coat (finishing coat)	5-8mm	5-10mm	5-10mm
NHL 3.5 @ 1: 2.5 or NHL 2 @ 1:2 Sands: 3mm down.			
Finer sands for wooden float or smooth finishes (2mm or finer) can be used. In these cases the thickness should not be over 5mm.			

Notes: background preparation as per good practice. Always dampen surface before each application. On high suction background ensure that this is thoroughly dampened (no standing water on surface), if necessary several times, to minimise shrinkage.

Cure work for few days with water mist. Protect against rain, frost, drying wind and direct sun for 2 to 7 days.

See "Protecting Lime Mortar".

If dubbing out is required the mortar ratio should be the same as the 1st coat. Leave dubbed out areas as sprayed to provide a key.

*Sablon S3 Hopper gun

	20-25mm**	25-35mm	up to 40mm
			(for thickness above 40mm please consult us)
On well keyed surfaces. (raking joints not necessary)	10-15mm	10-15mm	
NHL 5 or NHL 3.5 @ 1: 1.5 Sands: well graded 5mm down to 0.075 Trowel off high spots and leave 3-4 days as sprayed to provide good key.			
2nd coat	5-10mm	10-15mm	10-15mm
NHL 5 @ 1:2.5 or NHL 3.5 @ 1:2 Sands: well graded 3mm down to 0.075			
This can be the finishing coat for a 20-25mm render. If a smooth finish is required apply a 3rd coat as below. Level using a straight edge and key with criss-cross patterns. Leave about 7 days depending on weather conditions and the plasterer's judgment.			
3rd coat (finishing)	3-5mm	5-8mm	5-10mm
	Smooth finishes only otherwise use 2nd coat as finishing coat.		
Finer sands for wooden float or smooth finishes (2mm or finer) can be used. In these cases the thickness should not be over 5mm.			
NHL 3.5 @ 1: 2.5 or NHL 2 @ 1:2 Sands: depending on the finish required. >Finer sands for wooden float or smooth finishes (2mm or finer) can be used. In these cases the thickness should not be over 5mm.			
<i>** This thickness can be achieved in one coat (several passes) with suitable aggregates. Please consult us.</i>			

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Cure work for few days with water mist. Protect against rain, frost, drying wind and direct sun for 2 to 7 days.

See "[Protecting Lime Mortar](#)".

If dubbing out is required the mortar ratio should be the same as the 1st coat. Leave dubbed out areas as sprayed to provide a key.

For further Guidance, contact your St Astier Distributor.

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