

# Plastering with a Spray Gun

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 1,000 square feet per day per man is quite normal. The pressurized application also allows to build-up the thickness of a layer to one inch. The pressure should not exceed 50 psi (3.5 Bar). Two-coat work is normally sufficient with the use of a spray gun.

## On Surfaces with Low Keying

### **A. Overall Plaster Thickness: 3/4" – 1"**

- 1. Scratch Coat:** 1/8" – 3/16" (3-5mm)  
St. Astier NHL 5 or St. Astier NHL 3.5 @ 1: 1.5  
Sands: well graded #4 (5mm) down to #200 (0.075)  
Leave 24/48 hours as sprayed to provide good key
- 2. Second Coat:** 3/8" – 5/8" (10-15mm)  
St. Astier NHL 3.5 @ 1:2 or St. Astier NHL 5 @ 1:2.5  
Sands: well graded #6 (3mm) down to #200 (0.075)  
Leave for a minimum of 4 days depending on weather conditions, coat thickness and the plasterer's judgment.  
If this is also the finish coat (3/4" – 1" (20-25mm) only), depending on the finish required, a finer sand can be used (#8 (2mm) down to #200 (0.075)).  
Level using a straight edge and key with criss-cross pattern.
- 3. Third Coat (Finish Coat):** 3/16" – 5/16" (5-8mm)  
St. Astier NHL 3.5 @ 1: 2.5 or St. Astier NHL 2 @ 1:2  
Sands: #6 (3mm) down.  
Finer sands for wooden float or smooth finishes (#8 (2mm) or finer) can be used.  
In these cases the thickness should not be over 3/16" (5mm).

### **B. Overall Plaster Thickness: 1" – 1-3/8"**

- 1. Scratch Coat:** 1/8" – 3/16" (3-5mm)  
St. Astier NHL 5 or St. Astier NHL 3.5 @ 1: 1.5  
Sands: well graded #4 (5mm) down to #200 (0.075)  
Leave 24/48 hours as sprayed to provide good key
- 2. Second Coat:** 5/8" – 3/4" (15-20mm)  
St. Astier NHL 3.5 @ 1:2 or St. Astier NHL 5 @ 1:2.5  
Sands: well graded #6 (3mm) down to #200 (0.075)  
Leave for a minimum of 4 days depending on weather conditions, coat thickness and the plasterer's judgment.

If this is also the finish coat (3/4" – 1" (20-25mm) only), depending on the finish required, a finer sand can be used (#8 (2mm) down to #200 (0.075)).

Level using a straight edge and key with criss-cross pattern.

**3. Third Coat (Finish Coat):** 3/16" – 3/8" (5-10mm)

St. Astier NHL 3.5 @ 1: 2.5 or St. Astier NHL 2 @ 1:2

Sands: #6 (3mm) down.

Finer sands for wooden float or smooth finishes (#8 (2mm) or finer) can be used.

In these cases the thickness should not be over 3/16" (5mm).

**C. Overall Plaster Thickness: Up to 1-1/2"**

(for thickness above 1-1/2" please consult us.)

**1. Scratch Coat:** 3/16" – 5/16" (5-8mm)

St. Astier NHL 5 or St. Astier NHL 3.5 @ 1: 1.5

Sands: well graded #4 (5mm) down to #200 (0.075)

Leave 24/48 hours as sprayed to provide good key

**2. Second Coat:** 3/4" – 1" (20-25mm)

St. Astier NHL 3.5 @ 1:2 or St. Astier NHL 5 @ 1:2.5

Sands: well graded #6 (3mm) down to #200 (0.075)

Leave for a minimum of 4 days depending on weather conditions, coat thickness and the plasterer's judgment.

If this is also the finish coat (3/4" – 1" (20-25mm) only), depending on the finish required, a finer sand can be used (#8 (2mm) down to #200 (0.075)).

Level using a straight edge and key with criss-cross pattern.

**3. Third Coat (Finish Coat):** 3/16" – 3/8" (5-10mm)

St. Astier NHL 3.5 @ 1: 2.5 or St. Astier NHL 2 @ 1:2

Sands: #6 (3mm) down.

Finer sands for wooden float or smooth finishes (#8 (2mm) or finer) can be used.

In these cases the thickness should not be over 3/16" (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 minimize shrinkage.

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

If dubbing out is required the mortar ratio should be the same as the 1<sup>st</sup> coat.

Leave dubbed out areas as sprayed to provide a key.

**On Well-Keyed Surfaces**

**A. Overall Plaster Thickness: 3/4" – 1"\*\*\***

**1. First Coat:** 3/8" – 5/8" (10-15mm)

St. Astier NHL 5 or St. Astier NHL 3.5 @ 1: 1.5

Sands: well graded #4 (5mm) down to #200 (0.075)

- Trowel off high spots and leave 3-4 days as sprayed to provide good key.
2. **Second Coat:** 3/16" – 3/8" (5-10mm)  
St. Astier NHL 5 @ 1:2.5 or St. Astier NHL 3.5 @ 1:2  
Sands: well graded #6 (3mm) down to #200 (0.075)  
This can be the finish coat for a 3/4" – 1" (20-25mm) plaster. If a smooth finish is required apply a 3<sup>rd</sup> coat as below.  
Level using a straight edge and key with criss-cross pattern.  
Leave about 7 days depending on weather conditions and the plasterer's judgment.
  3. **Third Coat (Finish Coat):** 1/8" – 3/16" (3-5mm) Smooth finishes only, otherwise use 2<sup>nd</sup> coat as finish coat.  
St. Astier NHL 3.5 @ 1: 2.5 or St. Astier NHL 2 @ 1:2  
Sands: depending on the finish required.  
Finer sands for wooden float or smooth finishes (#8 (2mm) or finer) can be used.  
In these cases the thickness should not be over 3/16" (5mm).

\*\* This thickness can be achieved in one coat (several passes) with suitable aggregates. Please consult us.

**B. Overall Plaster Thickness: 1" – 1-3/8"**

1. **First Coat:** 3/8" – 5/8" (10-15mm)  
St. Astier NHL 5 or St. Astier NHL 3.5 @ 1: 1.5  
Sands: well graded #4 (5mm) down to #200 (0.075)  
Trowel off high spots and leave 3-4 days as sprayed to provide good key.
2. **Second Coat:** 3/8" – 5/8" (10-15mm)  
St. Astier NHL 5 @ 1:2.5 or St. Astier NHL 3.5 @ 1:2  
Sands: well graded #6 (3mm) down to #200 (0.075)  
This can be the finish coat for a 3/4" – 1" (20-25mm) plaster. If a smooth finish is required apply a 3<sup>rd</sup> coat as below.  
Level using a straight edge and key with criss-cross pattern.  
Leave about 7 days depending on weather conditions and the plasterer's judgment.
3. **Third Coat (Finish Coat):** 3/16" – 5/16" (5-8mm)  
St. Astier NHL 3.5 @ 1: 2.5 or St. Astier NHL 2 @ 1:2  
Sands: depending on the finish required.  
Finer sands for wooden float or smooth finishes (#8 (2mm) or finer) can be used.  
In these cases the thickness should not be over 3/16" (5mm).

**C. Overall Plaster Thickness: Up to 1-1/2"**  
(for thicknesses above 1-1/2" please consult us.)

1. **First Coat:** 3/8" – 5/8" (10-15mm)  
St. Astier NHL 5 or St. Astier NHL 3.5 @ 1: 1.5  
Sands: well graded #4 (5mm) down to #200 (0.075)  
Trowel off high spots and leave 3-4 days as sprayed to provide good key.

2. **Second Coat:** 3/8" – 5/8" (10-15mm)  
St. Astier NHL 5 @ 1:2.5 or St. Astier NHL 3.5 @ 1:2  
Sands: well graded #6 (3mm) down to #200 (0.075)  
This can be the finish coat for a 3/4" – 1" (20-25mm) plaster. If a smooth finish is required apply a 3<sup>rd</sup> coat as below.  
Level using a straight edge and key with criss-cross pattern.  
Leave about 7 days depending on weather conditions and the plasterer's judgment.
3. **Third Coat (Finish Coat):** 3/16" – 3/8" (5-10mm)  
St. Astier NHL 3.5 @ 1: 2.5 or St. Astier NHL 2 @ 1:2  
Sands: depending on the finish required.  
Finer sands for wooden float or smooth finishes (#8 (2mm) or finer) can be used.  
In these cases the thickness should not be over 3/16" (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 minimize shrinkage.

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

If dubbing out is required the mortar ratio should be the same as the 1<sup>st</sup> coat.

Leave dubbed out areas as sprayed to provide a key.

<p><b>The information provided in these pages is of general nature only and does not constitute a full specification.</b></p>
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