



شركة أبولو لكيمائيات الأبنية Apollo For Construction Chemicals

Quick level LV Method Statement (Self-smoothing floor leveling underlayment)

Section A: General Comments

Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement:

<i>Protective clothing</i>	:	<i>Gloves, goggles, face mask and protective overalls</i>
<i>Mixing equipment drill</i>	:	<i>Power-whisk fitted in a heavy-duty slow speed electric</i>
<i>Application equipment</i>	:	<i>Trowel and spiked roller</i>

Section B: Application

1.0 Preparation

- 1.1 Concrete and sand/cement screeds should be sound, dry, fully cured and free from any laitance or surface treatments.
- 1.2 Suitable Mechanical method such grit blasting or any equivalent method should be used to remove any existing weak or deteriorated concrete.

Note: If the surface is contaminated by oil or grease, it is recommended to consult our technical department to advice for the suitable method for removing the contamination.

- 1.3 The surface tensile strength of the substrate should be a minimum 1.5 N/mm².

2.0 Priming

- 2.1 Apply one coat of Apollo Primer or Apollo Acrylic Primer diluted with 3 parts potable water and allow drying for 1:30 hr to 2:00 hr at 25°C.
- 2.2 Apply a further coat of Apollo Primer or Apollo Acrylic Primer diluted with 3 parts potable water and brush well into the surface.

Note: The primer must be allowed to dry before the application of Quick level LV.



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3.0 Mixing

- 3.1 Use power-whisk fitted in a heavy-duty slow speed electric drill to mix 25 kg of powder to 5 - 5.25 litre of potable water.
- 3.2 Pour the powder slowly while mixing.
- 3.3 Continue mixing until a smooth, lumps free consistency is achieved. Total mixing time not to be less than 3 minutes.
- 3.4 Place Quick level LV within 2 minutes of completion of mixing.

Note: cool water is advised for mixing (temperature around 20°C or low).

4.0 Application

- 4.1 Each independent area of application should have sufficient materials, equipment and labours, it is always better to work in manageable sections of approximately 20m².
- 4.2 Pour or pump the mixed material onto the prepared surfaces spread with trowel and allow to attain a smooth finish.
- 4.3 Apply at a thickness between 1 - 10 mm in one pass only.
- 4.4 Use spiked roller to eliminate entrapped air and smooth out flow lines, do not over roll.
- 4.5 Freshly mixed Quick level LV should be placed within 6 minutes of the previous adjacent batch being poured to reduce the formation of seam lines.

Notes:

- If the mixing batch stiffens, it should be discarded, do not remix it with water.
- Do not exceed the recommended water content and only use cool potable water.
- If the ambient and the substrate temperature is less than 10°C or above 35°C, don't apply the material.
- Freshly laid Quick level LV should be protected from direct sunlight and strong drying winds until the material is hard.
- Quick level LV should not be used on new concrete less than 14 days old or floors where rising damp is valid, unless a suitable primer is used.
- Protect from frost.

5.0 Cleaning

- 5.1 Tools and equipment can be cleaned with water.



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Section C: Approval and variations

This method statement is offered by Apollo for construction chemical as a 'standard proposal' for the application of **Quick level LV**. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to Apollo for construction chemical for approval, in writing, prior to commencement of any work. Apollo for construction chemical will not accept responsibility or liability for variations to the above method statement under any other condition.