

Concrete Information/Installation Guideline Sheet: medium/heavy finish

Concrete Information

- RC35 – C35/40 – Minimum Cement Contents 325 (325kg per cubic meter)
- Aim to achieve a minimum of 35 newton's.

Cement

Any of the following cement types dependent on working time needed, weather conditions and/or supplier, also location)

- CEM I – Formally known as OPC
- CIIS – Up to 35% Slag/Fly Ash
- CIIA-V – Up to 20% Part Fly Ash
- CIIA – Up to 65 % Slag/Fly Ash

Cement types can vary dependant on supplier, best to speak to your selected concrete companies 'Technical' department

- 20mm Aggregate (rounded or angular)
- 30%-40% - Over Sanded
- 5% AEA – Air Entrainment Additive
- Fibres – Polypropylene Standard 1kg per cubic meter
- SLUMP – 70-100 - Target S3

Concrete Installation Guidelines

1. Level the concrete either manually/machine (e.g. Screed bar/vibrating screed rail) to FFL – Finish floor level.
DO NOT POKER THE CONCRETE SLAB (as this will 'Knock out'/vibrate out the AEA).
2. Pass the surface of the concrete with a magnesium bull float or wooden bull float, ensuring to level and remove ridges, use this process to 'work Up' the fines.
3. Once the 'Bleed Water/Surface Water' has disappeared pass the surface of the concrete with a steel trowel – either by hand or using a big 'o' – big blue steel on 6ft extension poles.
4. When the surface is hard enough to take a person's weight, use a standard power float and 'Pan' to pass the surface of the concrete.
PLEASE NOTE: after initial pass of the power float with pan, a large amount of 'paste/fat' should be visible on the surface.
5. Repeat the passing of the power float with pan until a 'Sweat Finish – Stipple Finish' is left behind, with minimal ridges to the concrete.



Aim: to **machine finish** the concrete surface allowing minimal 'Surface Laitance' - 'Surface Delamination'

By working the surface with a machine 'Power float' this hardens the concrete surface in the early newly laid days of the slab, also helping with the longevity and hardness of the concrete surface after initial 30 day curing time.

Tools Needed

- Hand screed bar or Vibrating screed bar
- 48" Magnesium bull float/wooden bull float
- 48" Big Blue 'o' / steel trowel
- 6ft extension poles for large 48" floats
- Hand steel trowels
- 24" to 36" Power float (larger areas may require larger machines)

Do's and Don'ts

DO: Ensure the surface is passed evenly not to miss out any areas.

DO: Work edges and important areas e.g. drains, kerbs and corners with a hand held steel trowel, as these are just as important.

DON'T: Add unnecessary water to the concrete mixer truck.

DON'T: Add additional water to the surface of the concrete slab.

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