



## **HYDRO™ HC-100**



### **READY MIX – ultra strong self-leveler/grout**

Ready mix. Specially formulated and mixed as a self leveler. Our ready-2-mix product is the ideal product to replace the cement. The best choice to do concrete bench tops or any concrete product that requires high-end formwork and smooth finish in a flash. Ideal for self-leveling floor surfaces (1 - 2.5mm)

HC-100 is suitable for use over concrete surfaces. Concrete floors must be solid, clean and free of oily residues, wax, grease, bitumen, latex compounds, curing and sealing compounds etc. that may contaminant the substrate. To prepare the substrate/floor use methods such as shot blasting, scarifying, diamond grinding, shaving or other suitable methods to provide a roughened, clean, sound, solid and open porous surface as recommended for a floor. Do not Acid etch or use solvents or sweeping compounds to clean the subfloor. Ensure a substrate temperature of a minimum of 10°C and ensure adequate falls to drainage with no ponding water. Apply evenly using a push broom. Do not use rollers, mops or spray equipment. Apply evenly on the entire designated subfloor. Always mix the powder into the water. The most efficient method of mixing is by using a mixing paddle and a heavy-duty electric drill (650rpm@10 minutes). For primer use HC-Primer SE do not leave pooled primer on the substrate. Wear football boots with rubber or nylon studs to avoid leaving unnecessary. Spread into place using a gauging rake with height adjustment to obtain an even thickness. Alternatively, use a flat trowel to spread into place ensuring the correct thickness is obtained at all times. Use a stand-up spreader for smoothing and where necessary use a hand trowel. Once laid out do not rework the material after 10 minutes. HC-100 can be applied from 1mm to 25mm in one application. Allow approximately 2 hours before subjecting to foot traffic or additional application if needed. Higher



temperatures will reduce the drying time whilst lower temperatures will extend the drying time. HC-100 dries faster in thinner applications.

Substrate moisture content should always be verified by testing prior to installation of floor coverings. Generally, tiles can be installed after 3 hours whilst carpet and vinyl may be installed after 24 hours if the floor is sufficiently dry. Suitable for indoor and outdoor use, HC-100 is used prior to the installation of most types of floor coverings including ceramic tiles, carpet and vinyl.

Water to Cement mix ratio = 0.18 - 0.27:1 depending on desired performance outcome. The less water, the higher and faster the strength gains in the initial hydration period.

Please mix for 10 minutes before use to get a smooth consistent mix. Application as a floor mix for 10-25mm. As a singular product, compressive strength gains of 30MPa at 2 hours, 50MPa at 24 hours, and over 60MPa can be achieved.

Working time around 30 minutes @ 23°C. Modified set times are available but require laboratory assistance based on mix designs. Up to 4 hours delay can be achieved.

Coverage: 20kg bag will give you @ 1mm approx.12m<sup>2</sup>; @ 3mm approx 4m<sup>2</sup> this will vary depending on water ratio and substrate.

Shrinkage AS1478.2 = 208 micronstrain@408 days

Coverage: 1.7kg/m<sup>2</sup>

pH Value = 10 pH; W:P ratio = 0.18 - 0.27 depending on desired performance outcome and product. The less water, the higher and faster the strength gain in the initial hydration period.

Additionally, the HC- binder system is impervious to both marine and sulphates which is abundant in volcanic derived soils.

Available in 1hr, 2hr and 4 hr delay versions

Available Packaging for all HC-binders

20kg, 1000 kg, 1200 kg



Further information please contact us through [mailbox@fluxdesignaustralia.com](mailto:mailbox@fluxdesignaustralia.com)

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