

# PROTEUS<sup>®</sup>

## Smoothflow

The Proteus range of self-compacting concretes embodies versatility of application and ease of use, eliminating both mechanical compaction methods due to its excellent flow characteristics and the need to power float due to its high quality finish thus increasing cost effectiveness.

Of this range, Proteus Smoothflow is tailored to the following applications:

- **Slabs to residential dwellings**
- **Mezzanine floors**
- **Structural toppings**
- **Lightly-trafficked industrial floors**
- **Domestic floors**

Proteus Smoothflow's characteristics enable it to fill the available void space without segregating.

Proteus Smoothflow creates an impressive, non-bleeding and smooth finish using less equipment and workers, increasing productivity.

Proteus Smoothflow can be placed directly from a truckmixer, but is pumpable too.



### ➤ **Specification**

- Minimum 28 day compressive strength of 35N/mm<sup>2</sup>
- Remains fluid up to 2 hours from batch time
- Accepts light foot traffic after 24-48 hours



### ➤ **Installation**

- Substrate to be stable
- Fix 8-15mm ethafoam or similar to all edges, ducts and vertical protrusions
- Polythene membrane (150µ x 350µ) required between concrete and substrate where unbonded construction is used, all seams overlapped to 200mm and taped
- Minimum slab thickness 75mm
- Baysizes - joints should be cut at 40 x slab depth eg. for 75mm thick, 40 x 75 = 3000mm = 3m. Cut at 3m x 3m, 1/3 slab depth. Alternatively, set crack inducers at these intervals
- Reinforcing mesh (wire thickness 2mm to 2.5mm) and bonding compound required where bonded construction is used; minimum 50mm cover
- Use mesh as above if covering underfloor heating or insulation; minimum 50mm cover, 300mm overlap. Crack control mesh recommended at all re-entrant angles (10mm mesh size)
- Pour, dapple once, then again at 90 degrees with a suitable dappling bar, then spray on a curing agent
- ALWAYS use a curing agent
- Where tiles are to be laid, moisture content should be no more than 3% as measured with a moisture meter

### ➤ **Other conditions**

- Do not load with site materials for 7 days is recommended
- Not be laid in temperatures of less than 5°C or above 30°C
- Not to be laid directly on aluminium faced insulation
- Not to be laid on frozen substrate
- Pumps, where used, to be primed with 1:1 cement: water slurry and not pumped into the placing area.
- Remove standing water prior to placement
- Test all underfloor heating for leaks prior to placement of Proteus<sup>®</sup> and pressurise pipes to prevent compression



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