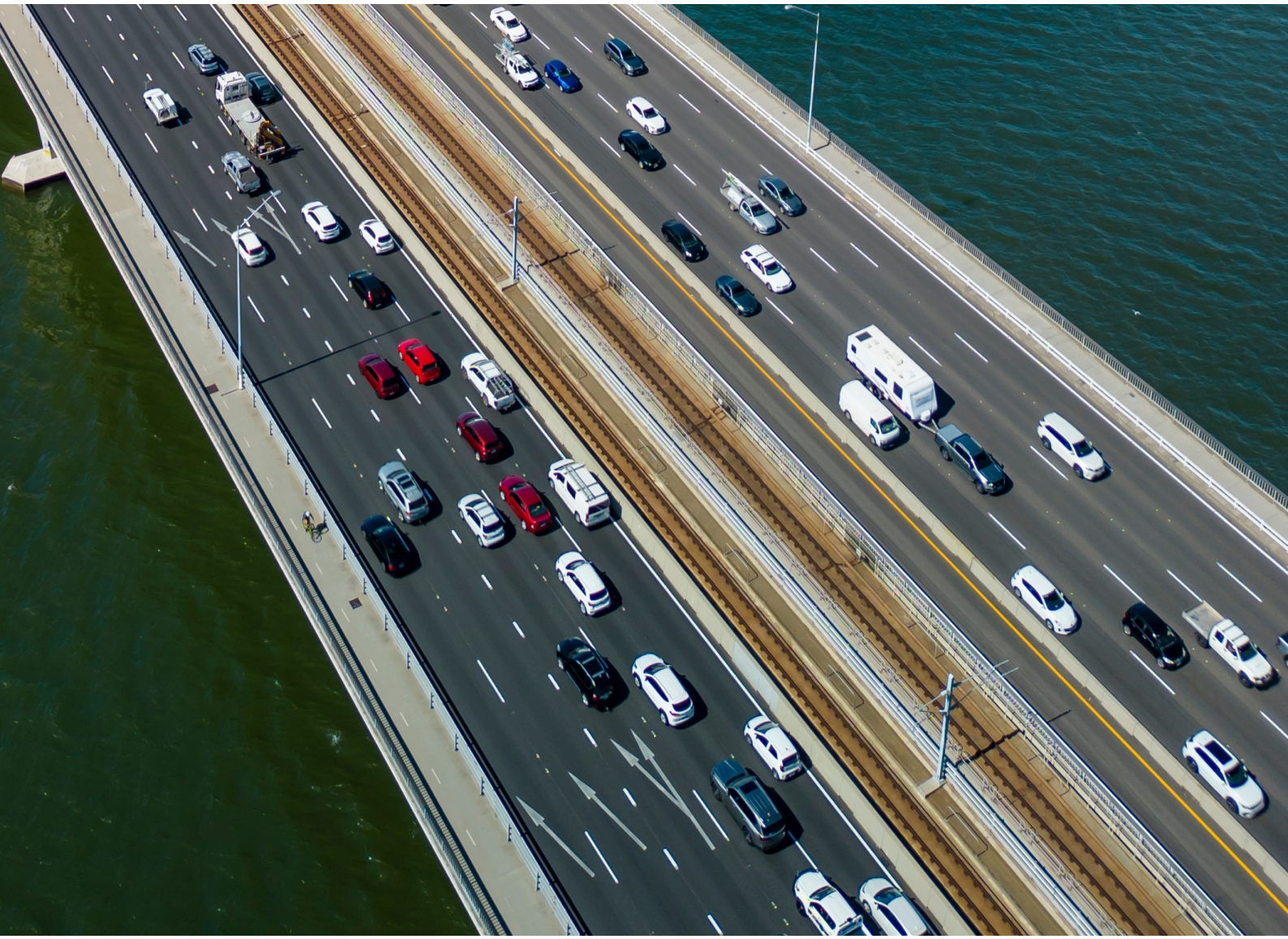
INDUSTRY GUIDELINE

CEMENT CONCRETE & AGGREGATES AUSTRALIA

Premixed Concrete Delivery to Domestic House Floor Slabs and Footings



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Premixed Concrete delivery to domestic house floor slabs and footings — changes to the Australian Standard

Important Information for Concrete Placers

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Leading Knowledge - Sharing Information

A default slump of 100-mm for residential slabs and footings (domestic houses and townhouses only) has recently been introduced.

Extract from AS1379–2007 Specification and Supply of Concrete

Clause 1.5.3.2 Basic Parameters Note 2 Item (b): "For residential slabs and footings, if the slump is not specified by the customer, the specified slump should be taken as 100 mm".

Reasons for the change:

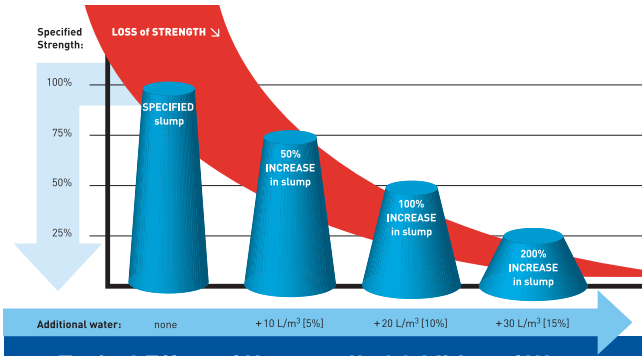
1. When concrete is supplied at a slump of 80-mm, concrete placers often ask for additional water to be added on site. This is understandable because higher slump concretes are often
   - easier to place
   - easier to compact.
2. However concrete that is not designed for higher slumps can often cause:
   - reduced strength (see chart opposite)
   - cracking
   - dusting.

Note: The concrete supplier cannot take responsibility for concrete that has had uncontrolled water added to it.

What should the concrete placer do?

1. **Order concrete with a slump that is suitable** for:
   - the equipment that you are using (eg. chute, pump, etc.)
   - where the concrete will be placed (eg. thin sections and/or congested reinforcing steel).
2. **Do not ask the driver to wet concrete up on-site.**
3. If additional water is requested, the driver has been instructed to obtain a legible name and signature from an authorised person on the delivery docket before adding any water.

Note: Concrete strength and performance cannot be guaranteed if additional water is added.



Typical Effect of Uncontrolled Addition of Water on concrete strength and slump

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