

# Concrete Grout for Masonry

Electronic Blueprint and ENVIROSPEC provide building specifications, details and training on safe and sustainable buildings to architects, engineers and builders. Concrete grout must have sufficient portland cement to provide an alkaline environment that protects the steel reinforcement. Limiting the size of aggregate to 10 mm, insures against the formation of voids, while specifying a high slump ensures that the grout can flow to all parts of the hollows.

AS 3700 requires grout to have strength of at least 12 MPa, but limits the design strength of grout to 1.3 times the compressive strength of the concrete block. For a normal 15 MPa concrete block, this corresponds to 19.5 MPa. Therefore there is little point in specifying strength in excess of 20 MPa. A suitable specification for concrete grout, for use in masonry, is as follows:



## Concrete Grout

Concrete grout shall comply with the Drawings, Building Regulations and relevant Standard (AS 3700). Unless stated otherwise, properties shall be:

- Minimum portland cement content of 300 kg/cubic metre;
- Maximum aggregate size of 10 mm;
- Sufficient slump to completely fill the cores; and
- Minimum compressive cylinder strength of 20 MPa.

For further details of electronic specifications or the ENVIROSPEC Protocol - [www.electronicblueprint.com.au](http://www.electronicblueprint.com.au)



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