

CERTIFICATE OF TEST

2018

Test for: Adhesive Bond Strength

Test Material: OPTEK HBT (Cementitious Mortar)

Test Standard: Bond test according to German Instrument (DK).
There is no Australian Standard for this test.

Finding: OPTEK HBT cementitious mortar has high bond strength to concrete. Prime coating with OPTEK HBT slurry significantly increases the bond strength.

Specimens: 12 of 52.5 MPa concrete tiles 120mm x 120mm x 70mm.

Curing of specimens: All specimens were water cured in 28 days at 22⁰C after which time the specimens were coated on one face.

6 specimens coated with OPTEK HBT cementitious mortar in accordance with application instructions.

6 specimens prime coated with OPTEK HBT slurry (as recommended) and coated with OPTEK HBT as above.

All specimens were then further cured for 28 days on a grating over water at 22⁰C, then oven dried at 75⁰C for 3 days after which metal discs of 50mm diameter were glued, with epoxy adhesive, approximately in the centre of the coating layer. The specimens were then cured for 7 days at between 20⁰C and 25⁰C ambient temperature.

Testing of specimens: The bonded discs were then subjected to a controlled rate of tensile force. The position of failure and the tensile force at failure in kN was recorded and the adhesive bond strength calculated.

Table 1: OPTEK HBT (Cementitious Mortar)
Adhesive Bond Strength

Test Results:	Specimen	Adhesive Bond Strength mpa
	OPTEK HBT	5.2
	Prime OPTEK HBT slurry Coat OPTEK HBT	6.9

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