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Laboratory Reference: CAN12W1227

ADHESION AGENT TEST REPORT

ATTENTION: Ray Georgey

CLIENT: Otech Australia

CLIENT REFERENCE: 0.5pph with Millbrook, Whangaripo

ADHESION AGENT: Otech AGGBIND-75[®] liquid adhesion agent

ADHESION AGENT SOURCE: Supplied by Fulton Hogan Canterbury Bitumen Plant in May 2011

AGGREGATE SAMPLED BY: Chris Sinclair on 13 March 2012

TEST METHOD USED: MWD B301-89T

TESTED BY: Rachel Smith & Kim Pratt on 27/03/2012

RESULTS:

AGGREGATE SOURCE	AGENT QUANTITY (PPH BY VOLUME)	TEST RESULT	TEST CRITERION
Wharehine Millbrook Quarry - Whangaripo Pakiri Road, Wellsford	0.5	98	0.37
		Spec: 80 min	Spec: 2 max

NOTE: TNZ M/13: 1989 - SPECIFICATION FOR ADHESION AGENTS states that the sieved chip sample shall comply with the requirements of ALD/AGD ratio and ALD for grade 3 chip specified in TNZ M/6. This has not been verified for this aggregate.

Test performed using: Grade 3 chip of predominantly greywacke origin

Chip sieved between 13.2 & 9.5mm sieves and washed in deionised water

180/200 Penetration Grade Bitumen (Lab Ref. CAN12B-0060)

Adhesion agent set up time was 2.5 hours

Test temperature of 25°C

Report Issued By: Kim Pratt on 28/03/2012

Report Checked By:

Bitumen Laboratory Supervisor

Disclaimer: These test results apply to the samples as received by the Laboratory. No liability will be accepted by the Laboratory for any misrepresentation with respect to the sampling of material for testing and/or the use of these test results.

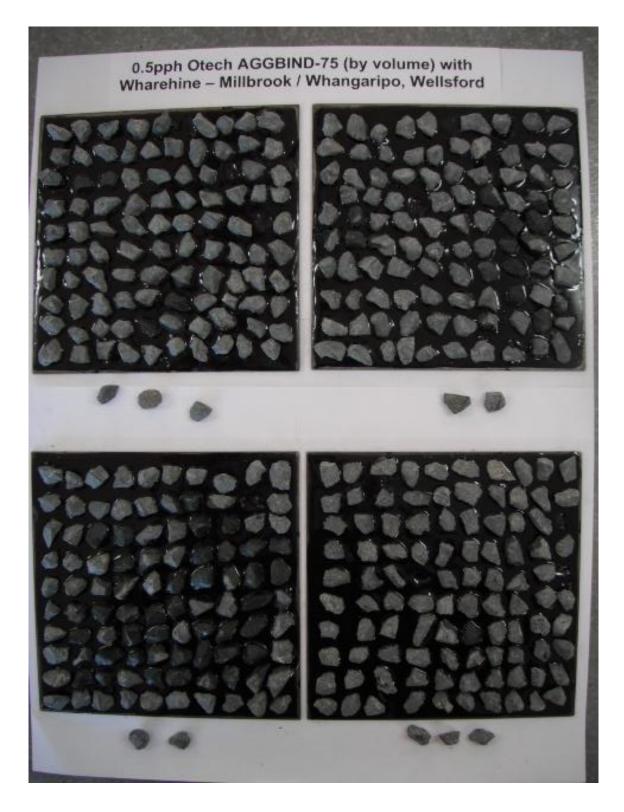


Figure 1. Photograph showing test plates with 180/200 bitumen and 0.5pph Otech AGGBIND-75[®] (by volume) after test was performed. Grade 3 Wharehine Millbrook Quarry / Whangaripo chip that was dislodged is arranged below the plates.