

CONCRETE TEST REPORT

CLIENT: Kryfix Australia

Client No: 482/22 boral.com.au

PROJECT: AS1478 Compliance Test of KIM Internal Membrane for Kryfix

REQUEST No: 101114

**Test Report Of Kim Internal Membrane
THE REQUIREMENTS OF AS 1478.1-2000, TYPE SN ADMIXTURE**

Note: Kim Internal Membrane was added 5kgs/m³ to the concrete mixer with cement simultaneously.

Lab. Number: 271388; 271389; 271390; 271391

Cement: Bulk Type GP ex Berrima 2202354 BTSL

Date of Test: 01.08.2022

PARAMETERS	STANDARD REQUIREMENTS	Control	Concrete with Kim	Comparison	Pass/Fail
Cement Content	(cement content 300 ± 15 kg/ m ³) ± 5kg on control	300	300	0	Pass
Slump	80 ± 10 mm	80	80	0	Pass
Time of Setting	Initial : ± 1 hour	4:20	4:50	+00:30	Pass
	Final: ± 1 hour	6:00	6:30	+00:30	
Water Content	Test and report	202	200	99%	Pass
Bleeding (%)	Not exceed that of the control by more than 2%	2.3	2.5	+0.2	Pass
Air Content (%)	Test and report	1.2	1.5	+0.3	Pass

COMPRESSIVE STRENGTH:

Age	Min. of Control	Control (MPa)	Concrete with Kim (MPa)	Comparison	Pass/Fail
3	90%	21.0	23.0	110%	Pass
7	90%	27.5	29.0	105%	Pass
28	90%	35.0	37.0	105%	Pass
91	90%	39.0	41.5	106%	Pass

DRYING SHRINKAGE: (Microstrain)

Age	Min. of Control	Control	Concrete with Kim	Difference
7	Test and report no limit established	210	210	0
14	Test and report no limit established	310	300	-10
21	Test and report no limit established	400	390	-10
28	Test and report no limit established	460	440	-20
56	Test and report no limit established	600	570	-30

Note: All samples were prepared, cured and tested at this Laboratory as per AS 1012.2, 3, 4, 5, 6, 8, 9, 13, 18 respectively.

Remarks: ***This admixture (Kim Internal Membrane) complies with the requirements as per AS1478.1 2000, type SN admixture.***

AARAN DUNCAN, File 482, File 8219, Ref 101114SD

Approved Signatory Simon Dong
Date 1/11/2022 Serial No. CON101114.SD.1

