

RFPORT

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MPE International AB Magnus Söderholm Russinvägen 22 123 59 Farsta

Water absorption and resistance to alkali acc EN 13 580

(4 appendices)

Assignment

Testing of OFF Ask Enlager on concrete. Tests carried out in accordance with the procedures of EN 13580 Products and systems for the protection and repair of concrete structures – Test *methods* – *Water absorption and resistance to alkali for hydrophobic impregnations.*

2 **Test schedule**

The test objects and scope of the test are shown in table 1. The test programme started in Mars 2015. Final testing concluded on May 2015.

Table 1. Test schedule for treated and untreated concrete samples

Property	Method	Test object		
		Measurements (mm)	Number	
Water absorption and resistance to alkali	EN 13 580:2002	100x100x100	3 treated 3 untreated	

The concrete and the test samples "Type C (0,45)" were produced and stored at CBI Swedish Institute for Concrete Technology in Borås in accordance with the directions of EN 1766.

OFF Ask Enlager, batchnr 130423which arrived at CBI in Borås 2015-03-03, was applied by CBI in accordance with the manufacturer's recommendations. The amount of finish applied was checked by weighing. CBI has no other information relating to the substance and sampling.





3 **Results and Comments**

Figure 1 shows the absorption ratio (AR) and absorption ratio after exposure to alkali (AR_{alk}). The test results is shown in appendix 1.

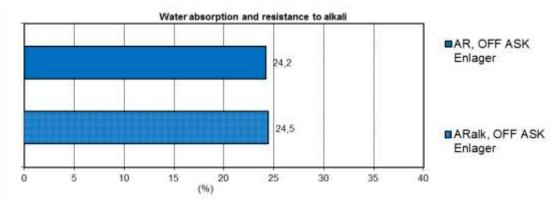


Figure 1. Absorption ratio (AR) and Absorption ratio after exposure to alkali (AR_{alk})

The tested product OFF Ask Enlager is not approved according to the requirements (<15%) in VTT-R-01292-14/EN table 3.4.

The Swedish Cement and Concrete Research Institute (CBI) **Testing & Control**

Performed by Examined by

Pavlos Ollandezos Cathrine Ewertson

Appendices

1 Test results

This is a translation from the Swedish original document. In the event of any dispute as to the content of the document, the Swedish text shall take precedence.



Appendix 1

Alkaliresistens, SS	Datum	00	REF	OF.	FASK	20	F ASK enlager	per	1 105k5 C	
Vattenlagring	Datum		3 at vot 0,45	- 0	3 at vot 0,45	OF	3 at up t 0,45	MEP	3 at vot 0,45	
	MARKET		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS	49790	44	1550000	1000		STREET, SQUARE, SQUARE,	1000
Vägning/kond Placeing i 21±25, 60±10 RF	10:00	Wase	AR-R1 AR-R2	2458.2 2415.3	AR-OA1 AR-OA2	2450.2 2434.2	AR-OAE1 AR-OAE2	2443.3	AR-RT1 AR-RT2	240
Flaceting (105)5 C			AR-RJ	2451.3	AR-OA3	3465,6	AR-DAE3	3452,4	AR-RT3	2401
Vägning	2015-03-23	West	19	2428.8		3450.0	- 10	34483	AR-RT1	2337
eter tokning i 105±5 C	2010-01-23		l .						AR-RT2	2301
70		MA 100	-						AR-RT3	2338
Vägning	2015-03-20	W _{ast}	AR-R1	2444.4	AR-OA1	3443.4	AR-OAE1	3435.4		- 1
21±2C, 60±10 RF			AR-R2	24018	AR-OA2	3426,4	AR-OAE2	2437.6		
			AR-R3	2444.9 2432.7	AR-DA3	2443,6	AR-DAE3	2448.2 2439.7		
Vägning 2015-0	2015-03-21	W.	AR-R1	2443.5	AR-OA1	3427.3	AR-OAE1	2434.4		
21±20. 60±10 RF		AR-R2	2407.8	AR-OA2	3442,4	AR-OAE2	2436.6			
		AR-R3	243.8	AR-OA3	2458.0 2442.6	AR-OAE3	2645,2 2438,7			
21e2C, 60e10 RF	W.	AR-R1	2442.9	AR-OA1	2441.9	AR-OAE1	2430,9			
		AR-R2 AR-R3	2407,3 2443,2	AR-OA2 AR-OA3	3435,7 2457,5	AR-OAE3	2430.0			
		Antic	2431,1	Antono	2442,0		2438,1			
Vägning 2015-03-23 21s2C, 60s10 RF	W,	AR-R1	2442.6	AR-OA1	2441,8	AR-DAE1 AR-DAE2	2433.6			
			AR-R2 AR-R3	2407.0 2442.9	AR-OA3	3435,4 3457,2	AR-DAE3	2446.2		
and the second s		THE STREET	-	2430,8		2441,7		2437,8		
Fukthyot (5,0±0,5)		M	-	46		50		4.9		
Applicating I		-					41 12			
Ca 75 g/m 2	2015-03-23	W m			AR-OA1	3441,6	AR-OAE1	3433.5		
	KI: 10:40	W _a	I			3446,7		3438,1 4,6		
			I		AR-OA2	2425,4	AR-OAE2	2435.7		
			I			3430,7 4,4		3440.1		
			I		AR-DA3	2457,2	AR-OAE3	2444.2		
			l .			2481.6 4,4		244E 8 4,3		
			l .			4,4		4,0		
Applicating II	2015-03-23	War	l .		AR-DA1	3442,7				
Ca 55 g/m 2	KI: 12:40	$W_{\mathcal{Q}}$	l .			3445,8				
			l .		AR-OA2	2427,3				
			l .			2450.5 3.2				
			l .		AR-OA3	3450.3				
			ı			2461.6				
						3,5				
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Absorption I, Last Vallen Behandlade open and see pro-	Referenser p Behandlade	pla dera s	s över kali um sulfatös ning	i en sluten behålla			AR-OAE1 AR-OAE2	2490.4		
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As corpton I, I and Nation Behandlose courand see pro- Vagning	Referenser p Behandlade p 4 morpet price 2015-04-08 HJ 09-20	pla cera : con il av	s dver kali um su fadčening ora aliat veten i vegarat AR-R1 AR-R3	i en siven behåla 2444,6 245,2 245,2 243,0	AR-CA1	3,5 2448,7 3428,8	AR-OAE2	2438.2		_
Absorption I, I av Valden Selandook openandske pro-	Referenser gi	pla dera s	of er kall um suitationing AR-R1 AR-R2 AR-R2 AR-R2	2444.4 2408.4 2445.2 243.0 2445.6 2443.9	AR-CA1	3,5 2443,7 2423,8 2465,7	AR-OAE2	2438.2 2446.4		_
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Absorption I, I and varien Behandlede voerhandlede pro Värgning etter 140.02 h	Referenser p Behandlade Behan	paceras con i me i , i z i z	diver kali um suitatida ning AR-RZ AR-RZ AR-RZ AR-RZ AR-RZ AR-RZ AR-RZ AR-RZ	2444,6 2405,6 2445,6 2455,2 245,0 2445,6 2413,9 2445,6	AR-OAT AR-OAZ AR-OAZ AR-OAT AR-OAT	2,5,5 2440,T 2438,8 2459,T 2444,0	AR-OAE1 AR-OAE1	2438.2 2440.4 2440.3 2438.2 2438.8 2447.8 2441.9		
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Absorption I, I and Nation Delived on the American Service Ser	2015-04-09 HO 05 20 15-04-30 HO 05 20 15-04-30 HO 05 20 20 15-04-30 HO 05 20 20 15-04-30 HO 05 20 15-0	pacera:	Siver kall um sulfatible ning some land verteen is preparate AR-AR2 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3	en siver berâls 2444,4 2454,2 2452,2 2433,0 2445,8 2453,2 2453,2 2454,8 2454,4	AR-OA1 AR-OA2 AR-OA3 AR-OA3 AR-OA3 AR-OA3 AR-OA3 AR-OA4 AR-OA2 AR-OA1 AR-OA2 AR-OA1 AR-OA2	2,6 2443,7 2443,8 3466,7 2444,0 2445,8 9101,4 2445,8 6,10 2445,8 6,10 2445,8 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,8	AR-OAES	2450.2 2440.3 2440.3 2430.8 2441.9 2441.9 2441.4 2441.8 2441.9 2441.4 2440.8 2441.4 2440.8 2441.4 2440.8 2440.7 3.4 2430.8 2447.0 2440.6		
Absorption I, I and Nation Behandlook downwollder pro- Vagning eter 140,02 h Vagning eter 240,1h Absorption II, I KON Schandlook pro-Veopor phoras i Vagning eter 210,1d (d2 gavi.)	2015-04-09 HO 05 20 15-04-30 HO 05 20 15-04-30 HO 05 20 20 15-04-30 HO 05 20 20 15-04-30 HO 05 20 15-0	pacera:	Siver kall um sulfatible ning some land verteen is preparate AR-AR2 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3	en siver berâls 2444,4 2454,2 2452,2 2433,0 2445,8 2453,2 2453,2 2454,8 2454,4	AR-OA1 AR-OA2 AR-OA3 AR-OA3 AR-OA3 AR-OA3 AR-OA3 AR-OA4 AR-OA2 AR-OA1 AR-OA2 AR-OA1 AR-OA2	2,6 2443,7 2443,8 3466,7 2444,0 2445,8 9101,4 2445,8 6,10 2445,8 6,10 2445,8 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,8	AR-OAES	2450.2 2440.3 2440.3 2430.8 2441.9 2441.9 2441.4 2441.8 2441.9 2441.4 2440.8 2441.4 2440.8 2441.4 2440.8 2440.7 3.4 2430.8 2447.0 2440.6		
Absorption II, I and vaccion Behandede contractions provided provi	2015-04-09 R0 15-04-09 R0 15-04-09 R0 15-04-09 R0 10-02-02 R0 15-04-09 R0 10-02 R0 15-04-09 R0 15-04-09 R0 15-04-09	paleers in the second s	Siver kall um sulfatible ning some land verteen is preparate AR-AR2 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3	en siver berâls 2444,4 2454,2 2452,2 2433,0 2445,8 2453,2 2453,2 2454,8 2454,4	AR-OA1 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA2 AR-OA2 AR-OA3	2,6 2443,7 2443,8 3466,7 2444,0 2445,8 9101,4 2445,8 6,10 2445,8 6,10 2445,8 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,8	AR-OAE1 AR-OAE3 AR-OAE3 AR-OAE3 AR-OAE3 AR-OAE2 AR-OAE3 AR-OAE3	2450.2 2440.3 2440.3 2430.8 2441.9 2441.9 2441.4 2441.8 2441.9 2441.4 2440.8 2441.4 2440.8 2441.4 2440.8 2440.7 3.4 2430.8 2447.0 2440.6		
Absorption I, and vector Behanded provided provi	2015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-04-09 1015-05-04	paleers in the second s	Siver kall um sulfatible ning some land verteen is preparate AR-AR2 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3	en siver berâls 2444,4 2454,2 2452,2 2433,0 2445,8 2453,2 2453,2 2454,8 2454,4	AR-OA1 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA3	245.7 2445.8 245.7 2444.0 2445.8 2405.7 2444.8 8,10 247.4 3,3 247.4 3,3 247.4 3,3 247.4 3,3 247.4 3,3 247.4 3,3 247.4 3,3 247.4 3,3 247.8	AR-OAE1 AR-OAE3	24-90.2 24-90.3 24-90.3 24-90.3 24-41.9 8.31 24-41.9 8.31 24-41.9 8.31 24-41.9		
Absorption II, I and Nation Behandlede town and side pro- Vagning eter 140,02 h Vagning eter 240,1h Absorption II, I Kotel (\$2 gavi.) (\$2 gavi.) Absorption III, I and notion Behandlede provioupper places as in the control of t	Behand ade. Behan	pacerating	Siver kall um sulfatible ning some land verteen is preparate AR-AR2 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3	en siver berâls 2444,4 2454,2 2452,2 2433,0 2445,8 2453,2 2453,2 2454,8 2454,4	AR-OA1 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA2 AR-OA2 AR-OA3	2,6 2443,7 2448,8 2465,7 2444,0 2445,8 4,10 245,8 4,10 245,8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	AR-OAE1 AR-OAE3 AR-OAE3 AR-OAE3 AR-OAE3 AR-OAE2 AR-OAE3 AR-OAE3	24-00.0 24-00.3 24-00.3 24-00.5 24-00.5 24-00.6 24-00.6 24-00.6 24-00.6 24-00.6 24-00.6 24-00.6 24-00.6		
Absorption II, and vestion Behandede loss and dee pro- Vagning eter 140.02 h Vagning eter 2440, 1h Absorption II, I ROH (2 gavi.) Absorption III, I and vestion (2 gavi.) Absorption III, I and vestion Enfanded a pro-Aroppe places	2015-04-09 H3 02 15-05-04-10 H	pacers:	Siver kall um sulfatible ning some land verteen is preparate AR-AR2 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3	en siver berâls 2444,4 2454,2 2452,2 2433,0 2445,8 2453,2 2453,2 2454,8 2454,4	AR-OA1 AR-OA2 AR-OA3 AR-OA3 AR-OA3 AR-OA3 AR-OA1 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA3	2,5 2443,7 2443,8 2444,0 2445,8 2445,0 2445,8 8,10 2445,8 8,10 2445,8 8,10 2445,8 2445,8 2445,8 2445,8 2445,8 2445,8 2445,9 2447,4 245,8 245,8 245,8	AR-OAE1 AR-OAE1 AR-OAE2 AR-OAE3 AR-OAE2 AR-OAE3 AR-OAE1 AR-OAE1 AR-OAE2 AR-OAE3	24-00.0 24-00.		
Absorption II, I and Nation Behandlook downardade proving Wagning eter 140,02 h Wagning eter 240,15 Absorption II, I KONI (\$2 gavi.) (\$2 gavi.) Absorption III, I and valider Behandlook proving partition (\$2 gavi.) Wagning Wagning	2015-04-09 1015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-05	pacerating	Siver kall um sulfatible ning some land verteen is preparate AR-AR2 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3	en siver berâls 2444,4 2454,2 2452,2 2433,0 2445,8 2453,2 2453,2 2454,8 2454,4	AR-OA1 AR-OA2 AR-OA3 AR-OA3 AR-OA3 AR-OA3 AR-OA4	2443,7 2443,7 2428,8 2459,7 2444,0 2445,8 5,10 2445,8 6,10 2445,8 6,10 2445,8 2455,8 2	AR-OAE!	24-0.0 24-0.0 24-0.0 24-0.0 24-0.0 24-0.0 24-0.0 34-1.4 24-0.0 24-0.0 24-0.0 0.3 24-0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		
Absorption II, I and Nation Behandlede town and side pro- Vagning eter 140,02 h Vagning eter 240,1h Absorption II, I Kotel (\$2 gavi.) (\$2 gavi.) Absorption III, I and notion Behandlede provioupper places as in the control of t	2015-04-09 H3 02 15-05-04 H3 02 15-05-05-04 H3 02 15-05-04 H3 02 1	pacers:	Siver kall um sulfatible ning some land verteen is preparate AR-AR2 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3	en siver berâls 2444,4 2454,2 2452,2 2433,0 2445,8 2453,2 2453,2 2454,8 2454,4	AR-OA1 AR-OA2 AR-OA3 AR-OA3 AR-OA3 AR-OA3 AR-OA1 AR-OA2 AR-OA3 AR-OA2 AR-OA3 AR-OA2 AR-OA3	2,6 2442,7 2442,8 2465,7 2444,0 2445,8 2445,8 6,10 2445,8 6,10 2447,4 2445,8 6,10 2447,4 2447,8 2447,4 2447,8 2447,4 2447,8	AR-OAE1 AR-OAE1 AR-OAE2 AR-OAE3 AR-OAE2 AR-OAE3 AR-OAE1 AR-OAE1 AR-OAE2 AR-OAE3	2400.2 2400.3 2400.3 2400.3 2400.8 2441.9 2441.9 2441.4 2400.8 2440.7 2440.7 2440.7 2450.8 0.3 2460.0 2460.		
Absorption II, I and Nation Behandlook downardade proving Wagning eter 140,02 h Wagning eter 240,15 Absorption II, I KONI (\$2 gavi.) (\$2 gavi.) Absorption III, I and valider Behandlook proving partition (\$2 gavi.) Wagning Wagning	2015-04-09 1015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-04 2015-05-05	pacers:	Siver kall um sulfatible ning some land verteen is preparate AR-AR2 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3 AR-AR3	en siver berâls 2444,4 2454,2 2452,2 2433,0 2445,8 2453,2 2453,2 2454,8 2454,4	AR-OA1 AR-OA2 AR-OA3 AR-OA3 AR-OA3 AR-OA1 AR-OA2 AR-OA3 AR-OA1 AR-OA2 AR-OA3 AR-OA1 AR-OA2 AR-OA3 AR-OA3 AR-OA3	2,5 2440,7 2428,8 2455,7 2444,0 2445,8 5,10 2445,8 5,10 2445,8 5,10 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,4 3,3 2447,5 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,3 2447,4 2447,4 2447,8 2	AR-OAE1 AR-OAE3 AR-OAE3	24-00.0 24-00.0 24-00.0 24-00.0 24-40.0 24-40.0 24-40.0 24-40.0 24-40.0 24-40.0 24-40.0 24-40.0 24-40.0 24-40.0		