Table 11: Penetration Depths in Test Specimens with Mowilith after RCM (Rapid Chloride Migration Test) Measured with $AgNO_3$ Solution

Test Specimen	Test Surface	Chloride Penetration Depth at Measuring Point											Average Chloride Penetration Depth
		1	2	3	4	5	6	7	8	9	10	11	
-	-	mm											
1	2	3	4	5	6	7	8	9	10	11	12	13	14
218-4E	left	49[1)]	37[1)]	14	15.5	13	20	18	14	19	49[1)]	49[1)]	16.11
	right	49[1)]	36[1)]	20.5	14	13.5	19	16.5	11.5	17	24[1)]	49[1)]	
218-5E	left	45[1)]	24.5[1)]	12.5	13	11	9.5	9.5	10.5	9	30[1)]	45[1)]	11.04
	right	45[1)]	23[1)]	13.5	13.5	10.5	10	10.5	11.5	10	32[1)]	45[1)]	
218-6E	left	48[1)]	25.5[1)]	23[1)]	13.5	12	12	12	18	17.5	31.5[1)]	48[1)]	13.85
	right	48[1)]	26[1)]	23[1)]	24[1)]	12.5	11.5	12.5	17	20[1)]	31[1)]	48[1)]	
218-4S	left	30[1)]	15[1)]	10.5	9.5	9	8	7	9	15.5	45[1)]	45[1)]	10.77
	right	29.5[1)]	21[1)]	10.5	9.5	8	8	8	10	13	43[1)]	43[1)]	
218-5S	left	45.5[1)]	16.5	14.5	10	8	7.5	7.5	16.5	14	30[1)]	32[1)]	11.00
	right	45[1)]	12.5	14	10.5	8.5	9	8.5	18	9	30[1)]	32[1)]	
218-6S	left	48.5[1)]	41.5[1)]	23.5[1)]	16.5	7.5	5	6.5	7.5	21	35[1)]	48[1)]	11.20
	right	48[1)]	48[1)]	22[1)]	17	7	4.5	6	7	17	35.5[1)]	48[1)]	
207-5	left	38[1)]	22[1)]	17	11.5	8.5	5	11.5	9.5	13	17.5	42[1)]	11.67
	right	37[1)]	21[1)]	12.5	10	12	9.5	9	11.5	17	21[1)]	43.5[1)]	
207-6	left	30.0[1)]	16	14	10	6	6	7.5	7.5	8	11.5	47[1)]	9.67
	right	30.5[1)]	16	12	11	10	6	7	6.5	6	13	47[1)]	

1) Values with a large edge inflow are not factored in

Table 12: Calculation of the Chloride Migration Coefficients of the Concrete Mixtures without Mowilith from the Results of the RCM Tests

Test Specimen	Temperature	Cylinder Length	Test Voltage	Penetration Depth	Auxiliary Variable ξ	Testing Time	$D_{migration}$	Average $D_{migration}$
-	k	mm	V	mm	-	s	$\cdot 10^{-12}$ m²/s	
1	2	3	4	5	6	7	8	9
118-4E	293	48.0	30	10.30	1.26	86400	4.04	2.61
118-5E		49.3		7.97		151200	1.79	
118-6E		47.8		9.08		151200	2.01	
118-4S		48.2		11.97		171000	2.42	2.20
118-5S		47.1		10.82		171000	2.12	
118-6S		48.2		10.39		171000	2.07	
107-1		47.8		7.91		167400	1.56	1.56

Table 13: Calculation of the Chloride Migration Coefficients of the Concrete Mixtures with Mowilith from the Results of the RCM Tests

Test Specimen	Temperature	Cylinder Length	Test Voltage	Penetration Depth	Auxiliary Variable ξ	Testing Time	$D_{migration}$	Average $D_{migration}$
-	k	mm	V	mm	-	s	$\cdot 10^{-12}$ m²/s	
1	2	3	4	5	6	7	8	9
218-4E	293	49.5	30	16.11	1.26	334800	1.75	1.42
218-5E		45.4		11.04		334800	1.07	
218-6E		48.0		13.85		334800	1.45	
218-4S		49.0		10.77		343800	1.09	1.11
218-5S		48.5		11.00		343800	1.10	
218-6S		48.6		11.20		343800	1.13	
207-5		50.6		11.67		336600	1.25	1.11
207-6		47.7		9.67		336600	0.96	

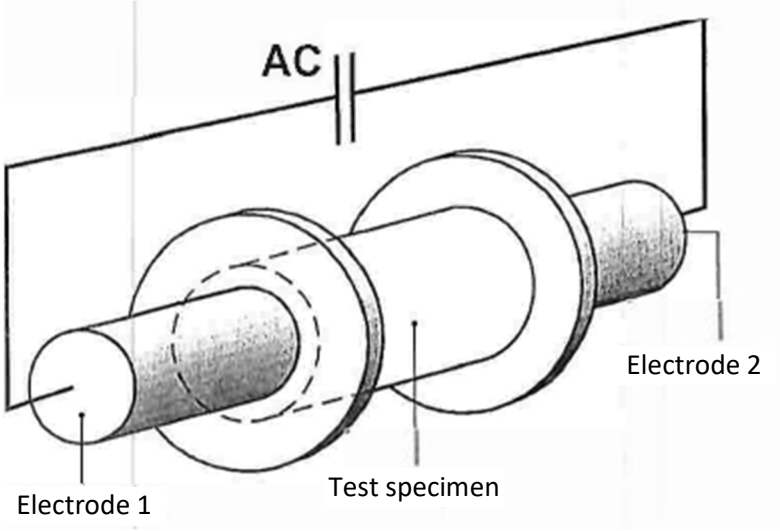

Figure 2: Schematic Sketch of the Two-Electrode Method (TEM)

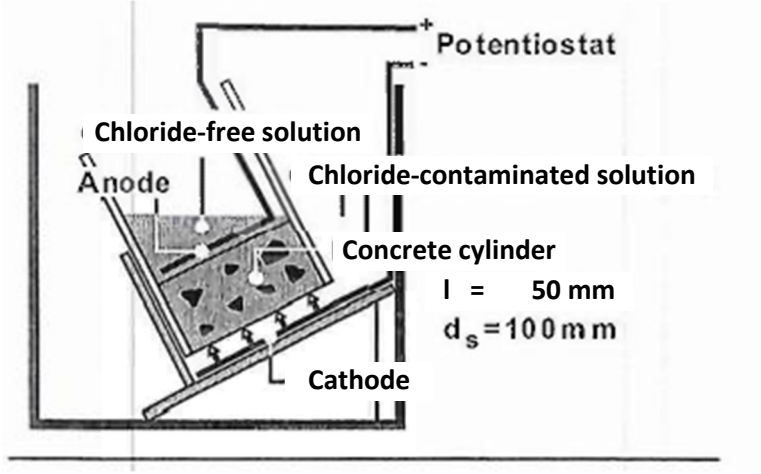

Figure 3: Schematic Test Set-Up of the Rapid Chloride Migration (RCM) Test

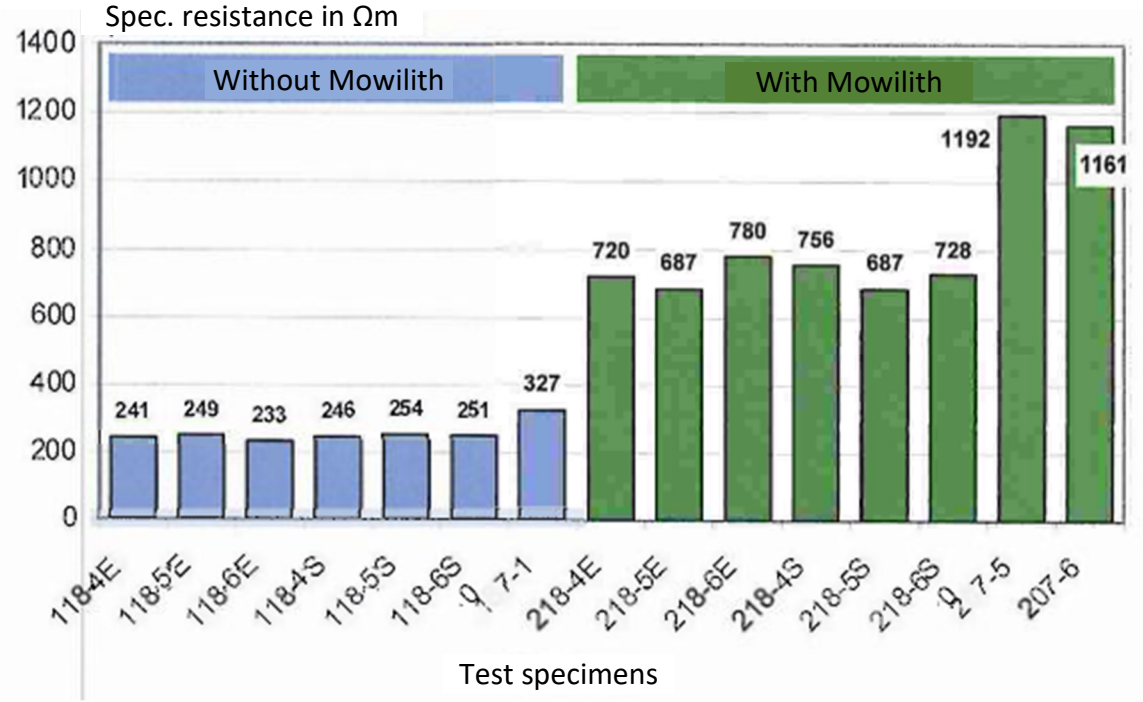

Figure 4: Specific Electrolytic Resistance Values

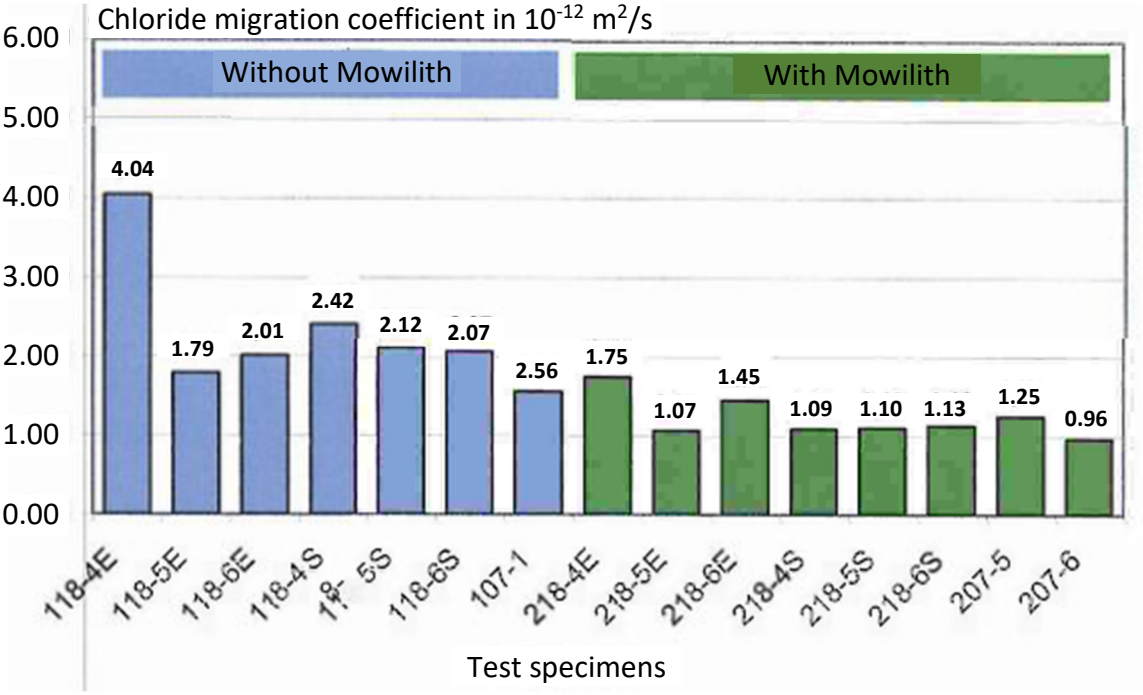

Figure 5: Chloride Migration Coefficients

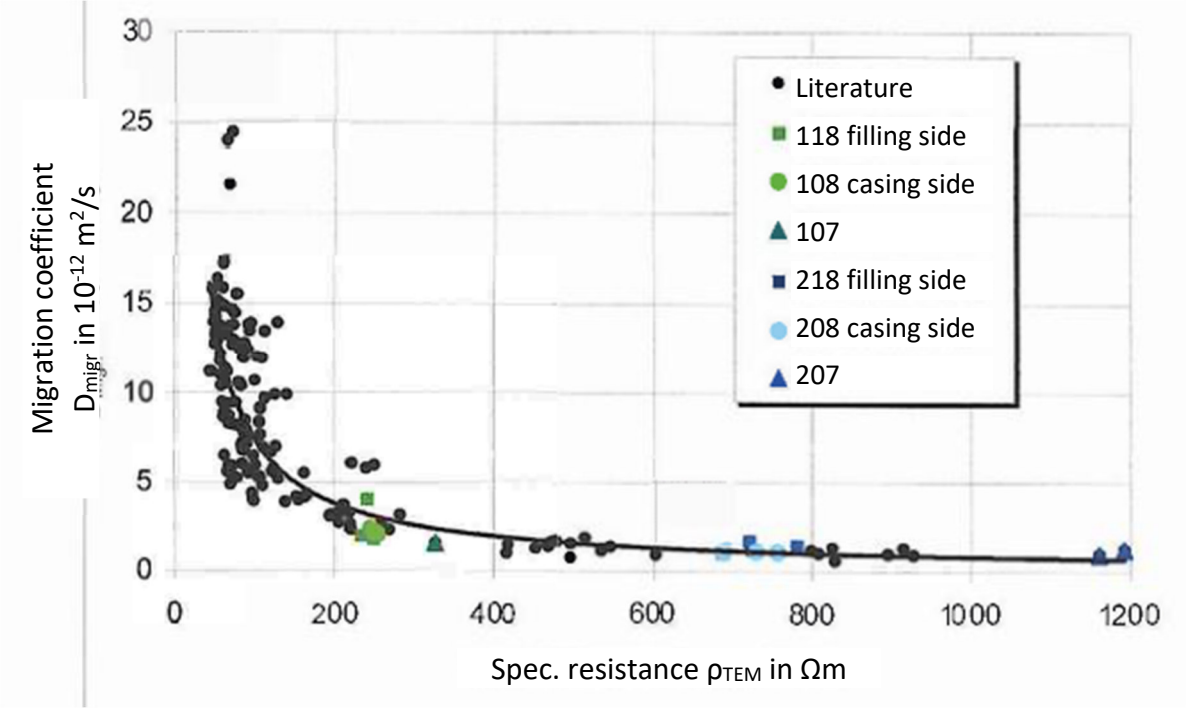

Figure 6: Relationship between Spec. Resistance and Migration Coefficients

Table 10: Chloride Penetration Depths in Test Specimens without Mowilith after RCM (Rapid Chloride Migration Test) Measured with $AgNO_3$ Solution

Test Specimen	Test Surface	Chloride Penetration Depth at Measuring Point											Average Chloride Penetration Depth
		1	2	3	4	5	6	7	8	9	10	11	
-	-	mm											
1	2	3	4	5	6	7	8	9	10	11	12	13	14
118-4E	left	48[1)]	36[1)]	10.5	not det.	9	9	10	12	11	11.5	48[1)]	10.30
	right	48[1)]	10	9.5	not det.	9	9.5	11	11.5	10	11	48[1)]	
118-5E	left	12[1)]	7	7.5	7	9	5.5	7.5	5.5	6.5	13	15.5[1)]	7.97
	right	13[1)]	6.5	8.5	7	7	8	9.5	7	9	12.5	13[1)]	
118-6E	left	47[1)]	10	9.5	10	8	8.8	8	9	8	12.5	29[1)]	9.08
	right	47[1)]	10	8.5	10	6.5	9	8	9.5	9	20[1)]	29.5[1)]	
118-4S	left	18[1)]	13	16	7.5	10	16	8	15.5	10	33[1)]	48[1)]	11.97
	right	18[1)]	11.5	12	7.5	13	14	8	12.5	13	16	48[1)]	
118-5S	left	47[1)]	47[1)]	9	13	13	12	8	9	8	47[1)]	47[1)]	10.82
	right	47[1)]	47[1)]	13	10.5	12	10.5	6	10	8	47[1)]	47[1)]	
118-6S	left	48[1)]	48[1)]	12	12	12	10.5	9.5	8.0	7.0	48[1)]	48[1)]	10.39
	right	48[1)]	48[1)]	9.5	15	12	12	11	8	7	48[1)]	48[1)]	
107-1	left	10[1)]	9	8.5	10	6.5	6	5	7.5	11	20[1)]	47[1)]	7.91
	right	11[1)]	7	6.5	9.5	5	7.5	6	9	9	11.5	47[1)]	

1) Values with a large edge inflow are not factored in
not det.: not determinable