

Test report : Assessment of the effect of cured PC[®] Leakinject UNI 6816/E against sulphates

Introduction

The goal of this report is to assess whether hardened PC[®] Leakinject UNI 6816/E samples are resistant against high loadings of sulphates. Therefore PC[®] Leakinject UNI 6816/E was allowed to cure under pressure in a cylindrical steel mal consisting out of 4 pieces that are held together with steel bolts (photos 1 and 2).

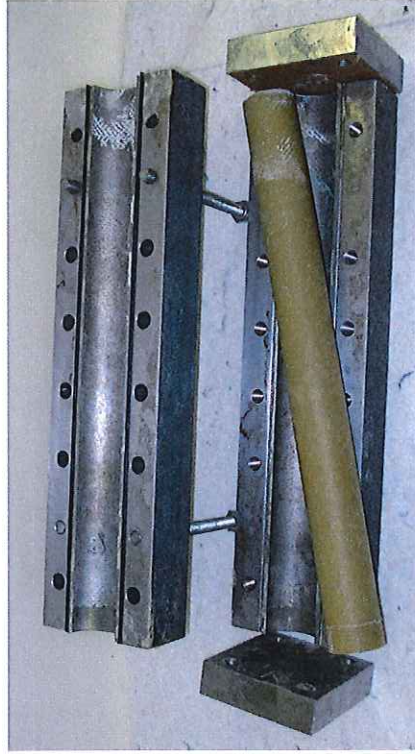


Photo 1: The steel mal in which the PC[®] Leakinject UNI 6816/E is cured under pressure consists out of 4 pieces.

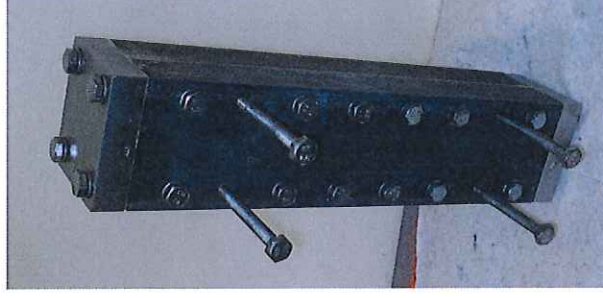


Photo 2: The 4 pieces of the steel mal are held together with steel bolts.

Next, 3 test specimens were immersed in a 20 wt% solution of sodium sulphate in water. The weight of the cured PC® Leakinject UNI 6816/E specimens was followed weekly during a period of 4 weeks.

Test results

The test results of the above-mentioned tests are summarized in the following table.

	$M_{1, 6816/E}$	$M_{2, 6816/E}$	$M_{3, 6816/E}$
Start	83.0	90.5	79.7
1 week	83.0	91.8	79.7
2 weeks	83.4	91.9	79.9
3 weeks	83.7	92.0	80.2
4 weeks	83.7	92.5	80.3
% increase	0.84	2.21	0.75

The average weight increase of the samples amounted to 1.27 %. The visual appearance of the samples remained unaffected.



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Conclusion

To conclude, it can be stated that the hardened PC[®] Leakinject UNI 6816/E is resistant against an aqueous solution of 20 wt% sodium sulphate.

Wilrijk, 16 May 2013

A handwritten signature in red ink, appearing to read "Dirk De Neef".

Dirk De Neef
CEO