

Test report : Assessment of the effect of cured PC® Leakinject UNI 6816/E on PVC

Introduction

The goal of this report is to assess the influence of hardened PC® Leakinject UNI 6816/E samples on PVC. 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.

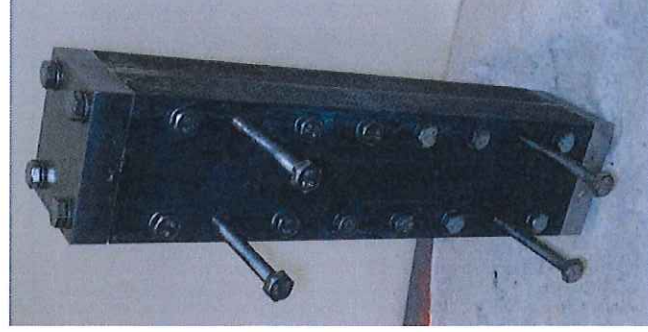


Photo 2: The 4 pieces of the steel mal are held together with steel bolts.

Out of the resulting hardened PC® Leakinject 6816/E rod, 3 pieces were cut of approximately 4 cm in height. The surface area of the upper face of each piece was approximately 12 cm². Next, 3 circular PVC samples were cut out of a plastic sheet so that the surface area of the top face amounted to approximately 12 cm². Furthermore, the 3 hardened injection resin specimens were placed on top of the 3 PVC test pieces. To ensure an intimate contact of the PVC material with the hardened PC® Leakinject UNI 6816/E test pieces, a weight was placed on top of each test specimen so that the loading was approximately 0,3 kg/cm² (photos 3 and 4).



Photo 3: 3 Hardened PC® Leakinject UNI 6816/E samples are placed on top of 3 PVC samples with the same dimensions.



Photo 4: To ensure an intimate contact of the PVC material with the hardened PC® Leakinject 6816/E test pieces, a weight was placed on top of each test specimen.

The weight of both the PVC pieces and the cured PC® Leakinject UNI 6816/E specimens was followed weekly during a period of four weeks.



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Test results

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

PC® Leakinject UNI 6816/E	M _{1, 6816/E}	M _{1, PVC}	M _{2, 6816/E}	M _{2, PVC}	M _{3, 6816/E}	M _{3, PVC}
Start	27	2.4	26.2	2.4	24.8	2.4
1 week	26.4	2.5	26	2.4	24.6	2.4
2 weeks	26.4	2.4	25.8	2.4	24.4	2.4
3 weeks	26	2.4	25.8	2.5	24.2	2.4
4 weeks	26.4	2.4	25.9	2.4	24.4	2.4
% M decrease	2.2	0	1.1	0	1.6	0

There is a slight decrease in the weight of the hardened PC Leakinject UNI 6816/E specimens. However, the visual appearance of these test pieces hasn't changed. The end weight of the PVC pieces is the same as their weight at the beginning of the test period. The visual appearance of the PVC pieces remains unaffected.



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Conclusion

To conclude, it can be stated that the two tested materials, namely PVC and hardened PC® Leakinject 6816/E, don't mutually affect each other in any negative way. The quality of the tested materials remains unaffected, even after a prolonged period of intimate contact between the PVC and hardened injection material.

Wilrijk, 16 May 2013

A handwritten signature in red ink, appearing to read "Dirk De Neef". The signature is stylized and written in a cursive-like font.

Dirk De Neef
CEO