



PC-Conflow® EH

Expansive and Plasticising grout admixture

PC-Conflow® EH serves as an admixture specifically designed for grouting ducts within post-tensioned or pre-stressed concrete structures using cementitious grout. This product guarantees lasting contact and a superior bond with the grouted surfaces. Its expanding properties mitigate the settling of fines before the initial set, thereby decreasing grout shrinkage and ensuring optimal workability for a successful grouting process. Moreover, within three days post-grouting, it achieves high frost resistance, meeting the required standards for grouting pre-stressed structures.

FEATURES

- Enhances the plasticity of grouting mortar.
- Prevents segregation and enhances cohesion.
- Decreases the water content within the mixture.
- Produces micro gas bubbles to facilitate optimal expansion and jointing effects.
- Free from chloride or any detrimental substances to concrete or steel.

USES

When grouting ducts in post-tension and pre-stressed concrete structures, this material can be blended with various standard cement types. It is suitable for pressure grouting in structural repair and rehabilitation projects, as well as in the production of non-shrink grouts.

APPLICATION PROCEDURE

Prior to incorporating PC-Conflow® EH, it is imperative to thoroughly blend the grout powder component with water for approximately 2 to 3 minutes. Subsequently, PC-Conflow® EH should be introduced to the mixture in a proportion ranging from 0.5 to 1% relative to the weight of the cement. The entire mixing process, aimed at achieving complete dispersion, should persist for a minimum of 4 minutes.

The exceptional dispersibility of PC-Conflow® EH enables a reduction in the water-to-cement ratio, facilitating the creation of a more compact mix. Conducting a preliminary test is essential to ascertain the optimal dosage. Notably, grouting activities can be seamlessly executed even in confined spaces without elevating the water content of the mixture. The expanding and swelling effect starts slowly but immediately after mixing the grout.

PC-Conflow® EH contains suitable thixotropic substances, which prevent segregation and provide a high bond to the contact surface without voids in the grouted mass. The setting and hardening process of the PC-Conflow® EH admixed grout is slightly retarded in order to carry on the grout operation effectively on larger surfaces or to re-grout where necessary.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be mechanically removed.

HEALTH AND SAFETY

PC-Conflow® EH is of low hazard and may cause irritation to the skin or eyes. In case of accidental contact with skin or eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary. For further information refer to the Material Safety Data Sheet.

PRODUCTS PROPERTIES

Physical Properties	Typical Value
Product	Expansive grout
Chemical Base	Modified Napthalene
Appearance	Creamish
Bulk Density	~ 0.85 kg/l @ 27 °C
Compressive strength: ASTM C109/109M-11	@ 7 days > 30 MPa (without sand) > 35 MPa (with sand) @ 28 days > 45 MPa (without sand) > 50 MPa (with sand)
Expansion: ASTM C827/C827M-10	Up to 5%
Flow characteristics: < 32 sec ASTM C939-87 within 30 min from mixing. Re-mixing is needed to keep the needed flow	< 32 sec
Chloride content: BS 5075	Null
Compatibility	compatible with all types of Portland cement

PACKAGING

Available in 0.250 and 5 kg bags

SHELF LIFE

12 months from production date, if stored in original sealed packaging, in areas protected from humidity and direct sun exposure. Recommended storage temperature between 5°C and 25°C.



PC-WC GLOBAL FZ-LLC

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TECHNICAL DATA SHEET UPDATED IN
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TDS/PC-CONFLOW® EH/20

All technical data in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

The information, particularly the recommendations relating to the application and end-use of PC-WC products, are given in good faith based on PC-WC's current knowledge and experience of the products when properly stored, handled and applied under normal conditions by PC-WC recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or any other advice offered. The user must test the product's suitability for the intended application and purpose. PC-WC Global FZ-LLC reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our website www.pc-wc.com