



3.10 XPERT PU-IF 360

Single Component Polyurethane Injection Foam for Filling Voids, Joints and Cracks

PRODUCT DESCRIPTION

XPERT PU-IF 360 is solvent free, single component polyurethane, foam certified for contact with potable water (Drinking Water).

APPLICATION

- Pre injection of cracks and joints in concrete
- Sealing of flowing / leaking water through voids cracks and joints in concrete structures
- Filling of water bearing voids

FEATURES AND BENIFITS

XPERT PU-IF 360 is a solvent free, injection and filling material based on Polyurethane resins. The product reacts particularly well under wet conditions.

- Reacts in moist surroundings
- Good bonding to wet surfaces
- Stops running water

TYPICAL PROPERTIES

CATEGORY	PARAMETERS
Density, 20°C	1.16 g/cm ³
Viscosity, 25°C	700-900 CPS
Flash point	>130°C
Odour	Slightly aromatic
Colour	Yellowish
Application temperature	+ 5°C to 40°C
Foam expansion at 23°C at 10% Accelerator Dosage (Maximum)	Free foam 1:20-30

PACKING

XPERT PU-IF 360 – 1 litre kit 1.055kg Base resin 0.105kg Accelerator (equates to 10% which is the maximum recommended).

Note: Accelerator dosage can be varied to suite site conditions.

REACTION TIME

The reaction time is dependent on substrate and material temperature.

The examples of reaction times with the maximum accelerator dosage (see Table 1) have been measured in the laboratory. However, it is advisable to check the required reaction time on site.

Site trials should always be performed prior to commencing the works.

Table 1: Reaction times with 10% accelerator

Initial Temperature	5 °C	10 °C	15 °C	20 °C
Start of reaction (sec)	130	65	30	15
End of reaction (sec)	350	250	120	60
Foam factor Approximate Free foam	20	25	25	30

APPLICATION PROCEDURE

Wet Conditions: Add the accelerator to XPERT PU-IF 360 (between 2-10%, depending on the required reaction time), mix quickly and thoroughly Inject this mixture through a single component injection pump. The moisture / water in the ground or structure will cause the foaming reaction.

Dry Conditions: For injection purposes, flush the cracks with water to thoroughly wet the injection area. Add accelerator to XPERT PU-IF 360 (between 2-10% depending on the required reaction time), mix quickly and thoroughly. Inject this mix through a single component injection pump.

Note: The XPERT PU-IF 360 injection should be followed by injection of XPERT PU-IF 360 to achieve a more durable seal.



After injection work has been completed, empty pump of any remaining material and thoroughly flush with a high aromatic solvent (Xylene). It is then recommended to pump some Flushing oil / Hydraulic oil through the pump. In this way the pump stays clean until the next use. Failure to do so may lead to pump and line blockage due to the reaction between the remaining resin and air humidity.

SOTRAGE

XPERT PU-IF 360 must be stored in airtight containers in a cool, dry place. If stored in tightly closed original containers under the above-mentioned conditions the shelf life of XPERT PU-IF 360 is 12 months. The resin components must be protected from freezing.

SAFETY PRECAUTIONS

XPERT PU-IF 360 is physiologically non-hazardous once cured. However, follow standard Health & Safety Procedures when handling the product and wear gloves and face / eye protection. For further information refer to Material Safety Data Sheet.

Avoid eye and skin contact. If skin contact occurs, wash with plenty of water and soap. In case of eye contact rinse with plenty of water and seek medical advice.

Non reacted material should only be disposed to special designated sites. It is better to let the product react with water to form foam before disposal in landfill sites.

The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience. However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed. For additional information or questions, please contact XPERT's representative.

WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to XPERT Construction Chemicals ("XPERT") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose.

Satisfactory results depend upon many factors beyond XPERT's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product.

- XPERT shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product.
- XPERT's sole responsibility shall be to replace that portion of the product, which proves to be defective.
- Any warranty claim must be made within six (6) months from the date of the claimed breach.
- This limited warranty applies only if the product was properly installed and used according to all instructions.
- This limited warranty applies only if the was properly stored prior to use.