AQUAPUR FLEX



Flexible hydroactive grout for stopping leaks through joints and cracks

Pot life

DESCRIPTION



Aquapur Flex is a polyurethane system that, upon reaction with water, givs a foamed flexible material. Aquapur Flex is delivered as a 2-component pack: Aquapur Flex resin and Aquapur Flex accelerator.



APPLICATIONS

- Water leaks
- Joints in concrete structures, with possible movement
- Joint and void filling
- Moderate size crack filling, where surface sealing alone is not suitable

PROPERTIES

- Non flammable product
- Injected with 1-component polyurethane equipment
- Long lastig flexible properties.
- Water stopping material



TECHNICAL DATA

TECHNICAL DATA					
INFORMATIO	ON ON THE	PRODUCT B	EFORE USE		
	Aquapur Flex Resin		Aquapur Flex Accelerator		
Chemical description	Aromatic polyurethane		Polyurethane catalyst		
	prep	prepolymer		solution	
Physical state	L	Líquid		Líquid	
Packaging	Metal	Metal container		Metal container	
		00 kg		20 kg 1 kg	
Non-volatile content	25 kg 100%			1 Kg 100%	
(%)					
Flash point	>1	>100aC		>100°C	
Colour	Ligh	Light brown		Almost colourless	
Density	Temp	Density	Temp	Density	
	(°C)	(g/cm3)	(°C)	(g/cm3)	
	25	1,06	25	0,89	
Viscosity	Temp	Viscosity	Temp	Viscosit	
Aproximate Brookfield	(°C)	(mPa.s)	(°C)	(mPa.s)	
•	25	722	25	30	
	10	2500	10	70	
Resin/Acceleraton		Recommended			
mixin ratio	Res=100, Ac=4 by weight				
	Res=100, Ac=4 by volume				
Colour of mixture		Yellow			
Mixture density an					
viscosity		Temp	Density		
		(°C)	(g/cm3)		
	_	20	1,00	_	
		Temp	Viscosity (ml	Pa.s)	
			, ,	- /	

INFORMATION ON THE FINALPRODUCT					
Use before	12 months after manu	ufacturing date			
Storage	Keep between 10° and 30°C				
Foaming ratio	1 to 10 (by volume, free exp	pansion)			
	Once mixed, the product surface will react with air moisture, forming a skin. This skin can be punctured and the fresh inner liquid can be reached and used. This liquid is usable for the pot life stated.				
	5°C, 100 g	45			
	20°C, 100 g	45			

Conditions

INFORMATION ON THE FINALPRODUCT				
Descrption	Flexible polyurethane foam			
Colour	white			
Density	62 kg/m3 (free expansion)			
Hardness (shore)	< 10A (free expansion)			
Adhesion	0.2 N/mm2 (EN 1542:2000, free expansion) 0.3 N/mm2 (EN 1216-2:2006, free expansion)			
Watertightness	Complete at pressures up to 0,7 MPa			
Water absorption	450%, free expansion. 30% at 300 kg/m3 final density			

SUPPORT REQUIREMENTS

Cracks to be filled must be dust free, with no loose parts. Water inside is needed for a correct foaming reaction.

RECOMMENDED AMBIENT CONDITIONS

High temperature and humidity conditions promote a surface skin formation in the Resin/Accelerator mixture. This hard skin can be punctured to reach the fresh inner liquid, which can be injected as usual. The surface hardened product, however, must be discarded as a waste. Low support temperatures will slower the foaming reaction. No reaction takes place if in contact with ice. Recommended support temperature: 5°C to 40°C.

SUPPORT PREPARATION

Some water can be previously injected if not enough water is found inside the cracks to be filled.

MIXING

Stir the Accelerator component before use. Pour the Accelerator component, in the recommended amount into the Resin container (Resin 100/Accelerator 4). No other product must be added, such as water or solvents. Stir and mix at low speed for two minutes. Keep in mind that, at low temperatures or in contact with salt, foaming reaction may be slower. In this case, a higher Resin/Accelerator ratio is advisable. Maximum recommended ratio: Resin 100/Accelerator 8..

APPLICATION

Check Resin/Accelerator ratio and mixing by making a small test before starting real job. Use specific injection grouting equipment. Place one-way injectors, in the crack spaced 20 or 30 cm each. Use all the mixture shortly after mixing.

In vertical cracks, inject following an upwards sequence. Use several injectors, starting injection by the lower one and allowing the foam to rise through the upper injector before continuing. Clean thoroughly the machine and hoses after use, with special machine oil or Rayston Solvent. It is recommended to keep the machine filled with these cleaning fluids when not in use.

RECOMMENDED AMOUNT

Amount to inject is depending on the fissure volume and the amount of water leaked. Ensure sufficient product is injected so that foam is effectively forming and filling all the cavities.

FOAMING TIME

Reaction time in dependent on the liquid temperature and the amount of product injected. At 20° C, 30 g, 5% water



C/ Martí i Franquès, 12 - Pol. Ind. les Tàpies 43890-l'Hospitalet de l'Infant- Spain Tel: +34 977 822 457 - Fax: +34 977 823 977 www.kryptonchemical.com – rayston@kryptonchemical.com

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Beginning: 24 s after mixing End of foaming: 70 s after mixing

At 10°C, 30 g, 5% water

Beginning: 35 s after mixing End of foaming: 100 s after mixing

RETUR TO SERVICE

Usually, foam is finished immediately after reaction and stops the flow of water.

TOOL CLEANING

Aquapur Resin and Accelerator, before mixing or when the mixture is still liquid may be cleaned with solvent Rayston, acetone or alcohol. Once reacted, the foam cannot be dissolved.

FAQS

Problem	Question	Cause	Solution
No foaming, slow reaction	Enough accelerators? Low temperature?	Low temperature	Increase Accelerator ratio
Little foaming V		No water in the	Ensure wetting with extra water
	Water?	crack, or mixing difficulties	Increase pressure to ensure turbulence and mixing
Leak does not stop	Enough foam density?	Little amount injected. Low foam density	Inject higher amounts of product

SAFETY

Aquapur Flex contains isocyanates, corrosive amines and other hazardous chemicals. Always follow instructions provided with the Material Safety Data Sheet. As a general rule, provide enough ventilation and avoid contact with skin and eyes. This product is intended to be used only for the uses and in the way here described. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses

ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager. If there is some residual product in the containers, do not mix it with other substances without checking for possible dangerous reactions.

OTHER INFORMATION

The information contained in this data sheet, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" in order to determine their convenience for a specific project. Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.



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