

PU F400

DESCRIPTION

Solvent and phthalate free, water reactive, hydrophobic, closed cell, low viscosity, shrink-free, flexible, one-component polyurethane injection resin designed to shut off water leaks

APPLICATIONS

- Shut off water leaks in concrete, brickwork and sewers where movement and settlement may occur
- Water cut-off of water leaks in foundations such as diaphragm walls, piling sheets and secant piles
- Sealing water-carrying cracks and joints in tunnel segments
- Curtain grouting behind tunnel, concrete, brickwork and sewer walls
- Injection of water cut-off membranes and liners in tunnels

ADVANTAGES

- One component
- Different reaction times are possible by adjusting the percentage of F400 ACC
- The closed-cell structure of cured polyurethane ensures permanent flexible sealing of cracks and joints.
- Cured polyurethane is flexible, shrink-free and exhibits good chemical resistance (contact our Technical Service for chemical resistance)
- Cured polyurethane is harmless for the environment and resistant to biological attacks.
- WQA drinking water certificate

PROCEDURE

Read the technical and safety data sheets prior to commencement of the injection works.
Vigorously shake the F400 ACC before use and pour the required quantity (2-10%) into the PU F400 resin. Mix the accelerator homogeneously into the resin and protect against moisture and rain to prevent premature reaction.
Depending on the application, injection can be carried out using a hand pump, pneumatic pump or electric pump.
Preferably use a separate pump for injection of water and PU resin. Prior to injection, the pump must be flushed with Spetec PU Pump Flush and be completely free of water to prevent pump blockage.

PACKAGING AND STORAGE

PU F400 is moisture sensitive and should be stored in a dry area between 5°C and 30°C.
Shelf life: 24 months in original packaging.
Once opened, containers should be used as soon as possible.
PU F400 is packaged in 1000kg IBC containers, 200kg steel drums, 20kg and 5kg metal cans.
PU F400 ACC is packaged in 20kg metal cans, 2kg and 0.5kg bottles.

SAFETY INSTRUCTIONS

Avoid contact with eyes and skin, always use personal protective equipment in compliance with local regulations.
Read the relevant safety data sheets before use. When in doubt contact Resiplast Technical Service.

PROPERTIES

PU F400, uncured (appearance: white liquid)			PU F400 ACC, Accelerator for PU F400 (appearance: blue liquid)			PU F400 + Accelerator cured		
Viscosity at 25°C	EN ISO 3219	±340mPa.s	Viscosity at 25°C	EN ISO 3219	±15mPa.s	Tensile strength	EN 527	>1MPa
Flash point	EN ISO 2719	>150°C	Flash point	EN ISO 2719	>150°C	Elongation at break	EN 527	±100%
Density	EN ISO 2811	±1.04kg/dm ³	Density	EN ISO 2811	±0.9kg/dm ³	Density	EN ISO 1183	±1kg/dm ³

REACTION RATE

F400 ACC	5°C		15°C		25°C		
	Start	End	Start	End	Start	End	
2	145"	320"	120"	300"	60"	170"	4V
6	65"	110"	50"	95"	35"	80"	4V
10	45"	70"	30"	65"	25"	58"	4V

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