TDS

PU H100

ONE-COMPONENT RESIN

DESCRIPTION

One component, closed cell, hydrophobic, water reactive, solvent and phthalate free, low viscosity polyurethane injection resin for stabilisation and water cut-off of large water leaks.

APPLICATIONS

- Water cut-off of large flow and high pressure water leaks
- Water cut-off of water leaks in foundations such as diaphragm walls, piling sheets and secant piles
- Stabilisation and water cut-off of large cracks, voids and gravel layers
- Pre and post injections in mines, tunnels, pipe jacking, drill & blast and TBM applications
- Injections in combination with cement-based grout
- Crack and gravel layer injections in concrete structures
- Soil stabilisation and anchors in porous geology
- Water cut-off of sewer water leaks and sewer stabilisation
- Probe Grouting for below grade pipes
- Manhole Injections

ADVANTAGES

- Single component
- Different reaction times are possible by adjusting the percentage of H100 ACC accelerator
- The closed-cell structure of cured polyurethane ensures permanent sealing of cracks and joints.
- Cured polyurethane exhibits high strength and good chemical resistance (contact our Technical Service for chemical resistance)
- Cured polyurethane is harmless for the environment and resistant to biological attack.
- WQA drinking water certificate

PROCEDURE

Read the technical and safety data sheets prior to commencement of the injection works.
Vigorously shake the H100 ACC accelerator before use and broadcast the required quantity (2-10%) into the PU H100 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 H100 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 H100 is packaged in 1000kg IBC containers, 200kg steel drums, 20kg and 5kg metal cans.
PU H100 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 H100, uncured *(appearance: brown liquid)*		
Viscosity at 25°C	EN ISO 3219	±160mPa.s
Flash point	EN ISO 2719	>150°C
Density	EN ISO 2811	±1.06kg/dm³

PU H100 ACC, Accelerator for PU H100 *(appearance: yellow liquid)*		
Viscosity at 25°C	EN ISO 3219	±15mPa.s
Flash point	EN ISO 2719	>150°C
Density	EN ISO 2811	±0.9kg/dm³

PU H100 + Accelerator cured		
Compressive strength	EN 12190	>20MPa
Tensile strength	EN 12190	>2MPa
Flexural strength	EN 12190	>10MPa
Density	EN ISO 1183	±1kg/dm³

REACTION RATE

H100 ACC	5°C		15°C		25°C		
%	Start	End	Start	End	Start	End	Expansion
2	55"	300"	42"	170"	35"	110"	15V
6	35"	85"	32"	80"	25"	75"	17V
10	25"	65"	22"	60"	18"	50"	18V

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