

ROCK INJECTION PU 20

PUR injection resin

PRODUCT DESCRIPTION Highly expansive solvent-free water-reactive two-part polyurethane foam injection system with long pot life.

USES

- ☐ Rock Injection PU 20 is used for stopping water infiltration and to be injected into water filled cracks
- ☐ To achieve permanent watertight crack sealing

CHARACTERISTICS / ADVANTAGES

- ☐ A special characteristic of this product is that no reaction takes place unless it is in direct contact with water / moisture
- ☐ The foaming rate in contact with water is dependent on the available water quantity
- ☐ Rock Injection PU 20 can be injected with a single component pump

PRODUCT DATA

FORM

COLOURS

Part A:	Brown
Part B:	Light yellow
Part A+B mixed:	Brownish

PACKAGING

Pre-measured 10 kg units (A+B):
 Part A: 9.00 kg
 Part B: 1.00 kg

STORAGE

Storage Conditions / Shelf-Life 24 months from date of production if stored in unopened, undamaged original sealed packaging, in dry conditions at temperatures between +5°C and +30°C.

TECHNICAL DATA

Chemical Base Solvent free water reactive two part polyurethane

Density
 Part A: 1.14 kg/l (at +20°C)
 Part B: 0.97 kg/l (at +20°C)

Viscosity
 Part A: ~ 150 mPa·s (at +25°C)
 Part B: ~ 5 mPa·s (at +25°C)
 Part A+B mixed (9 : 1): ~ 180 mPa·s (at +20°C)
 Part A+B mixed (9 : 1): ~ 380 mPa·s (at +10°C)
 Part A+B mixed (9 : 1): ~ 600 mPa·s (at +5°C)

SYSTEM INFORMATION

Application Details

Consumption / Yield 1 kg of Rock Injection PU 20 forms ~ 50 l foam (with free expansion in contact with water).

Application Conditions/ Limitations

Substrate Temperature +4°C min. / +35°C max.

Ambient Temperature +4°C min. / +35°C max.

Application Instructions

Mixing	Mixing ratio / reaction time								
	Mixing ratio by weight	+20°C			+10°C			+4°C	
Rock Injection PU 20 A Rock Injection PU 20 B	100 10	100 15	100 20	100 10	100 15	100 20	100 10	100 15	100 20
Induction* (sec.)	20	15	10	25	20	13	35	25	15
Reaction* (sec.)	75	55	45	90	70	55	100	80	60
Density after free expansion*	20	20	20	20	20	20	20	20	20
Foaming rate*	55			55			55		

*A+B are mixed with 10% water

Mixing Time	Add both parts in the correct proportion to a suitable clean and dry container and stir slowly (max. 250 rpm) for at least 3 minutes until the mixture is homogeneous.
Application Method / Tools	Injection pump for single component products
Cleaning of Tools	Clean all tools and application equipment with Cleaner from polyurethane residue immediately after use. Hardened/cured material can only be mechanically removed.
Pot life	Part A+B mixed <i>without contact with moisture/water</i> : ~ 6 hours (at +20°C)
Notes on Application / Limitations	The waterproofing process is divided into three phases: <i>Injection</i> : The time during which the injected material under pressure flows from the pump to the desired moisture/water containing areas. <i>Induction</i> : The time from mixing until reaction starts. <i>Reaction</i> : The period during which the mix viscosity increases and foam expansion takes place. Rock Injection PU 20 is generally used for stopping water infiltration fast.
Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.



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