

TWO COMPONENT PU N180 Rockbolt anchoring-slابلifting

DESCRIPTION

- PU N180 is a Polyurethane polymer created in-situ by a polyaddition process.
- Polyfunctional hydroxyl containing compounds react with polyisocyanates to obtain the inert polyurethane polymer.

APPLICATION

- PU N180 is a solvent-free, two-component PU adhesive used as an substrate bonding agent.
- Typical use is the fixation of rock bolt anchors in aggressive environments, load bearing filling of voids, slab-lifting, etc.
- This system can be processed on standard two-component PU injection equipment in a ratio of 1 to 1 in volume.

PHYSICAL PROPERTIES

PU N180 A Component			
Appearance		brown liquid	
Viscosity at 20°C	ASTM D4878-98	± 500	mPa.s
Flashpoint	ASTM D1310-86	156	°C
Relative Density at 20°C	ASTM D3505-96(2000)	1.235 ± 0.005	

PU N180 B Component			
Appearance		yellow liquid	
Viscosity at 20°C	ASTM D4878-98	± 300	mPa.s
Flashpoint	ASTM D1310-86	105	°C
Relative Density at 20°C	ASTM D3505-96(2000)	1.035 ± 0.005	

PU N180 Mixture Uncured (mixing ratio-volume 1:1)			
Viscosity at 20°C	ASTM D4878-98	400 ± 50	mPa.s
Gel time at 20°C approx.		Fast set: 150 sec Normal : 7 minutes	

PU N180 Mixture Cured		
Foam density free rise		140 kg/m ³
1 bar counterpressure		250 kg/m ³
2 bar counterpressure		360 kg/m ³
Compressive strength free rise		> 1,5 kg/cm ²
Compressive strength 2 bar		> 3 kg/cm ²
Fire class	DIN 4102,t.1	B3

AVAILABILITY

PU N180 is available in sets of 50 l (61 kg)

- component A: PE jug 25 l (27.8 kg)
- component B: PE jug 25 l (23.2 kg)

or in sets of 400 l (454 kg)

- component A: metal drum 200 l (247 kg)
- component B: metal drum 200 l (207 kg)

PROCEDURE

After the reaction PU N180 yields a lasting high density foam, an outstanding adhesive between different facings or sheets on all kinds of substrates.

The polymer is inert, non-soluble and shows a perfect hydrolytic resistance.

The adhesive strength obtains its maximum value after a few hours.

PU N180 will retain its adhesive properties between -40°C and +100°C.

SAFETY PRECAUTIONS

Avoid any contact with skin or eyes.

Follow safety precautions as indicated on our separate "Safety Data Sheet".

REACH complaint

The information in this data sheet has been given in good faith but without warranty. The application, use and processing of the products are beyond our control and therefore entirely your responsibility. Should, in spite of this, liability be established for any damages, it would be limited to the value of the goods delivered by us and used by you. We will of course provide products of consistent quality.

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