

## PUR N180

### 2 Part PU System as Rail Ballast Binder

*PUR N180 is a railway ballast binder. It is a two-component polyurethane (PU) system*

#### Uses

Reinforcement and stabilization of loose bulk ballast stones on railway tracks.

It is also used as stabilization of the ballast, when excavations need to be done under the ballast and the tracks. It glues the ballast together

#### Advantages

1:1 mix ratio, adjustable reaction time.

Forms a very strong and tough polyurethane foam for bonding ties, injection of fractured rock formations and stabilisation of railway ballast.

PUR N180 helps to reinforce the ballast, reduce flying stones and dust, as well as prevent pulverization. In addition, the solution is weather-resistant.

#### Application

PUR N180 is poured on the ballast stones to increase the rigidity and stiffness of ballast track. This reduces the vibrations and provides a buffer zone from the concrete slab track to the ballast track.

#### Package & Storage

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

Comp. A: PE jug 25 l (27.8 kg)

Comp. B: PE jug 25 l (23.2 kg)

or in sets of 400 l (454 kg)

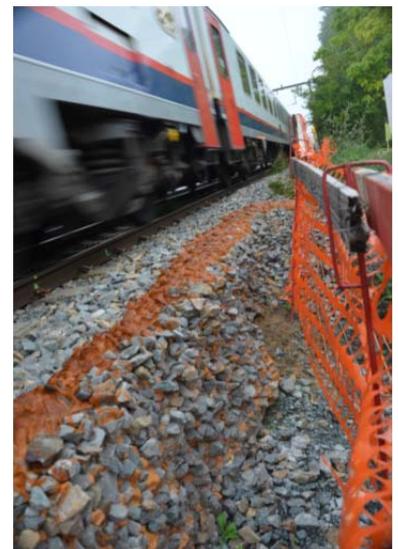
Comp. A: metal drum 200 l (247 kg)

Comp. B: metal drum 200 l (207 kg)

Store in original containers in a dry area, protect from heat and sunlight. Once opened, use as soon as possible.

#### Health & Safety

Avoid contact with eyes and skin. Follow advice in separate Health & Safety data sheet.



#### Technical data

<b>PU N180 A Component</b>		
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
<b>PU N180 B Component</b>		
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
<b>PU N180 Mixture Uncured (mixing ratio-volume 1:1)</b>		
Viscosity at 20°C	ASTM D4878-98	400 ± 50 mPa.s
Gel time at 20°C approx.		Fast set: 150 sec Normal : 7 minutes
<b>PU N180 Mixture Cured</b>		
Foam density free rise		140 kg/m <sup>3</sup>
		1 250 kg/m <sup>3</sup>
		2 360 kg/m <sup>3</sup>
Compressive strength free rise		> 1.5 kg/cm <sup>2</sup>
Compressive strength 2 bar		> 3 kg/cm <sup>2</sup>
Fire class	DIN 4102.t.1	B3

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This information is based on practical tests and is given in good faith. As final use is beyond our control, we cannot warrant performance or results of application.