technical data sheet

ISO 9001



Phthalate free, 2-component ultra fast water blocker for blocking large leaks.

Ceneblock UF Come Come Come Come Come Come Come Come	
 field of application 	 Blocking large flow water leaks in underground constructions. Blocking large water flows through strata and in rocks. Blocking and filling large voids in the presence of flowing water.
• advantages	 ADR free transport. Phthalate free resin, REACH compliant. Ultra fast reaction even when injected into flowing water. Easy 1/1 mixing ratio. Low expansion rate, safe to inject in large volumes without risks to the structure or injected strata. Solvent free, 100% solids. Not soluble in water. Good chemical resistance.
• description	 Deneblock UF is a 2-component, phthalate free, ultra fast reacting water blocking injection resin with 1/1 mixing ratio. When injected through a specially designed 2-component injection head with static mixer, Deneblock UF cures within 20 seconds to a hard plastic which blocks the hole or void. Deneblock UF is supplied in a 2-component set A-component : polyol blend. B-component : isocyanate. Mixing ratio : 1/1 volumetric.
• application	 1. Application equipment Deneblock UF is injected using the IP 2C-PUR injection pump equipped with a mixing head with separate Washing Agent Eco flush. During injection, the mixing head is flushed with Washing Agent Eco after each injection step due to the very high reaction speed of the product. Deneblock UF is injected using inflatable or high flow packers with screw thread connection at the end to allow installation of a static mixer after the packer. The static mixer should have at least 8 mixing elements. 2. Injection Deneblock UF mixing heads are flushed with Washing Agent Eco. Always make sure sufficient Washing Agent Eco is present to allow flushing the head between each injection step.

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- Insert the yellow marked suction hose for the flush pump in a pail of Washing Agent Eco. Test the correct function of the flushing system by rinsing the head until clean Washing Agent Eco is expelled.
- Insert the suction hoses into each component drum, making sure to keep A- and B-component holding vessels separate and clear. Never transpose or change the holding vessels.
- The pump suction hoses are marked:
 - Blue : A-component.
 - Red : B-component.
- Fill the pump with both components and flush back into waste drums until clean liquid is expelled from the hoses.
- Check 1/1 mixing ratio by pumping each component into separate pails and checking volume.
- Assemble the mixing head on the hoses.
- Connect the injection head to the packer.
- Open both product valves and start the injection.
- Inject until the water flow stops or until the predetermined amount of resin has been injected.
- Close the product valves and disconnect from the packer.
- Open the flush valve to start the rinsing cycle. If the flush pump will not start, close the rinsing valve and change the static mixer. Flush into a dedicated waste pail.
- Connect to the next packer and repeat the injection procedure.
- <u>3. Packers</u>

Mechanical or inflatable packers are used. Size and length of packers is determined according to the application.

Property	Value	Norm	
A-component			
Solids	100%	EN ISO 3251	
Density at 25°C	1,055 kg/dm ³	EN ISO 2811	
Viscosity at 25°C	500 mPa.s	EN ISO 3251	
B-component			
Solids	100%	EN ISO 3251	
Density at 25°C	1,23 kg/dm ³	EN ISO 2811	
Viscosity at 25°C	265 mPa.s	EN ISO 3251	
Mixed Deneblock UF			
<u>Temperature</u>	Initial cure	Expansion	
5	approx. 20 sec	1V	
15	approx. 15 sec.	1V	
25	approx. 10 sec.	1V	
Compressive strength (MPa)	> 65	EN 12190	
Flexural strength (MPa)	> 43	EN 12190	

appearance

A-component: brown transparent liquid. B-component: dark brown liquid. Cured Deneblock UF: dark brown plastic

consumption

Has to be estimated by the engineer or operator and depends on the size of the cracks and voids, which needs to be injected and the amount of water flow.

technical data/properties

 packaging 	<u>50 - 400 l kit</u>
	Resin
	 25 I plastic jerry-can = approx. 26,4 kg.
	 200 l steel drum = approx. 211 kg.
	Hardener
	 25 l steel drum = approx. 30,7 kg.
	 200 l steel drum = approx. 246 kg.
	1 pallet Deneblock UF
	 12 x 25 l jerry-cans A-component.
	 12 x 25 l metal drums B-component.
	OR
	• 2 x 200 l drums A-component.
	• 2 x 200 l drums B-component.
• storage	Dependence LIE A and B-component are moisture sensitive and should be
• storage	stored in original closed containers in a dry area. Storage temperature must
	be between 5° C and 30° C. Once the packaging has been opened, the use-
	ful life of the material is greatly reduced and the product should be used as
	soon as possible
	Shelf life 2 years
 accessories 	<u>To be ordered separately</u>
	IP 2C-PUR pneumatic 2-component injection pump.
	Washing Agent Eco.
	 Packers and connectors.
	(See respective Technical Data Sheets)
• health & safety	Deneblock UF A-component is not classified
	Deneblock UF B-component is classified as harmful. Always wear protec-
	tive clothing, gloves and goggles.
	For full information, consult the relevant Material Safety Data Sheet.

All data mentioned on this technical data sheet are product descriptions. They are the result of general experience and experiments and don't take any specific application into account. No further demands may be derived from these data. The manufacturer has the privilege to implement technical changes, which result from new research concerning the material composition and form. To verify that you are holding the latest version of this Technical Data Sheet, please visit www.deneef.eu. De Neef Conchem + 19-07-2010-01.