

**CONSTRUCTION / ENERGY**

**TEKTRENCH®**

**DUAL COMPONENT POLYUREA SILICATE GROUT**

**DESCRIPTION**

The TekTrench System is a pumpable two-component material that is used to construct pillows and breakers to support gas, oil or utility pipelines. The low exothermic operational temperature will not harm critical pipe coatings, and the ease and speed of installation reduces downtime improving pipeline installation productivity. The material has superior adhesion and water permeability characteristics making it an excellent choice to slow or stop the ingress of water in trenches.

The TekTrench System eliminates the need to manually handle and place heavy sandbags replacing it with a simple efficient pumped-in-place pipeline pillow and breaker installation method. Worker injury risks are mitigated, and safety is improved due to workers no longer needing to be in confined trench spaces while placing sandbags. Field operation efficiency is improved, and material consumption rates reduced all the while requiring less manpower. Costs and environmental impact are reduced by eliminating the need to deliver numerous truckloads of sand to remote locations, thus significantly lowering overall project carbon footprint as compared to traditional sandbag installations.



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**APPLICATION METHOD**

After mixing, the resin starts foaming within a few seconds forming a lightweight flame-resistant foam.

Thoroughly stir both components before and during pumping, as much as possible. The components are to be pumped at the volumetric ratio of 1:1 by using a dual component pump with final mixing of the materials achieved at the wand via static mixer prior to placement into the trench.

**USES**

TekTrench is used to construct pillows and breakers to support gas, oil or utility pipelines.

**ADVANTAGES**

- Increases efficiency, requires less manpower and improves cost savings
- Improves worker safety, workers are not required to be in trenches placing sandbags
- Fire-resistant, Water-permeable material

**TECHNICAL DATA**

The following laboratory provided data may vary in practice due to thermal exchange between cement and surrounding strata, pressure, and other factors.

**MATERIAL DATA**

Parameter	Component A	Component B	Standard
Density at 25 °C	1220 ± 15 kg/m <sup>3</sup>	1455 ± 30 kg/m <sup>3</sup>	DIN 12791-1
Color	brown	brownish-turbid	
Flash point	> 200°C (392°F)	n.a. °C/°F	DIN 53213
Viscosity at 25 °C	140 ± 15 mPa*s (cps)	260 ± 80 mPa*s (cps)	ISO 3219

**REACTION DATA**

Parameter	Value
Initial Temp	25°C (77°F)
Start of Foaming	20 s ± 10 s
End of Foaming	45 s ± 15 s
Foaming Factor	15-30
Standard	MCT PV 10-303

**PACKAGING AND TRANSPORTATION**

Container Type	Component A	Component B
Portable Containers (jugs)	66 lbs (30 kg)	77 lbs (35 kg)
Steel Drum	50 gal (190L)	50 gal (190L)
IBC Bulk Container	250 gal (946L)	250 gal (946L)

**STORAGE AND SHELF LIFE**

Store product out of direct exposure to sunlight as overheating may occur. It is critical to avoid overheating by all means as product degradation may occur.

Shelf-life is expected to be at least six months from date of delivery or twelve months from date of manufacture when product is stored in a dry place between the temperatures of 10°-30°C (50°-86°F).

If either period is exceeded, it is recommended to have the materials quality checked by Minova Quality to insure product specification compliance.

**APPROVALS AND CERTIFICATES**



an ISO 9001:2015

Quality Management System Certified Company

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**ADDITIONAL DOCUMENTATION**

Started more than 135 years ago, Minova is a global manufacturer and supplier of chemical and mechanical earth control products and support equipment. With manufacturing plants on five continents and operations in more than 25 countries, Minova is an industry-leading provider of ground support solutions for the underground mining, construction and energy industries.

If further information is required consult Minova Americas website: [www.minovaglobal.com](http://www.minovaglobal.com).

- TekTrench Component A Safety Data Sheet (SDS)
- TekTrench Component B Safety Data Sheet (SDS)
- Minova Technical Handbook for the Safe Use of Injection Resins within the Mining Sector

**MANUFACTURER**

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