

# TECHNICAL DATASHEET

## PRO-TEX™ ULTRA DEWATERING BAGS USAGE GUIDELINES

### DEWATERING BAGS

Ultra Dewatering Bags provide an effective way to collect harmful sediments from dirty water pumped out of excavation works (such as foundations, pipe line construction, water, sewer and utility trenches, waterways and lakes) that would otherwise pollute the surrounding environment.

It is a legal requirement to prevent silty water from leaving site untreated, and a finable offence if you do not take appropriate pollution control measures. The Environment Agency Pollution Prevention Guidelines PPG6, in summary, require that the majority of suspended solids (gravel, sand, and silt) must be removed from site water before it is discharged into a drain, sewer or watercourse.

The standard 1.80 x 1.80m Ultra Dewatering bags has the capacity to trap near 1 tonne of silt and cope with flow rates up to 2,730 l/min, while the larger 3.05 x 4.55m bags can trap over 4 tonnes of silt and cope with flow rates up to 6,818 l/min.

#### FEATURES/BENEFITS:

- Collects harmful sediment before it can enter the watercourse
- Cost effective solution
- Multiple sizes to cater for all needs
- Light, compact and easy to store
- Only requires a small working area
- 180 micron pore size

#### GUIDANCE:

- 0.91m x 1.22m (3 x 4ft) bags are designed for a 4 inch pump's maximum flow rate
- 1.8m x 1.8m (6 x 6ft) bags are designed for a 4 inch pump's maximum flow rate
- 3.05m x 4.55m (10 x 15ft) bags are designed for a 6 inch pump's maximum flow rate.

Ideally position the Ultra Dewatering Bag on a slope, so incoming water flows downhill through the bag, and, as a precaution, install Terrastop Premium silt fence down slope of the bags to control any potential runoff pollution.

The bag is fitted with a collar which fits around delivery hoses or connectors. Strap the neck of the Ultra Dewatering Bag tightly to the discharge hose using the attached tying cord.

To increase filtration efficiency place the bag on an aggregate, or a layer of Hy-Pave tiles, to maximize water flow through the under surface of the bag.

Plan ahead for removal, if the filled bags are to be lifted for disposal then place suitable lifting straps under bag prior to pumping, alternatively you can roll the bags into a excavator bucket.

Regularly check the bags. The Ultra Dewatering Bag is full when it no longer can efficiently filter sediment or pass water at a reasonable rate.

SIZE	CODE	SURFACE AREA	MAX FLOW RATE	MAX PUMP SIZE	SEDIMENT CAPACITY	OIL CAPACITY
0.91m x 1.22m (3 ft x 4 ft)	9729	2.23 m <sup>2</sup>	1,890 l/min (500 gal/min)	10 cm (4 inch)	0.17 m <sup>3</sup> / 327 kg (6 ft <sup>3</sup> / 720 lbs)	4.5 l (1.2 gal)
1.80m x 1.80m (6 ft x 6 ft)	9724	6.68 m <sup>2</sup>	1,890 l/min (500 gal/min)	10cm (4 inch)	0.51 m <sup>3</sup> / 980 kg (18ft <sup>3</sup> / 2,160 lbs)	14 l (3.7 gal)
3.05M x 4.55m (10 ft x 15 ft)	9725	27.87 m <sup>2</sup> (300 ft <sup>2</sup> )	5,670 l/min (1,500 gal/min)	15cm (6 inch)	4.20 m <sup>3</sup> / 8,165 kg (150ft <sup>3</sup> / 18,000 lbs)	57 l (15.1 gal)

PROPERTIES	ASTM TEST	VALUE
MATERIAL		NON-WOVEN POLYPROPYLENE GEOTEXTILE
GRAB TENSILE STRENGTH	D 4632	912 N (205 lb)
ELONGATION	D 4632	50%
TRAPEZOID TEAR	D 4833	356 N (525 lbs)
PUNCTURE RESISTANCE	D 4633	2,335 N (525 lbs)
MULLEN BURST	D 3786	2,896 kpa (420 psi)
PERMITTIVITY	D 4491	1.5 SEC <sup>-1</sup>
PORE SIZE O <sub>90</sub>		180 micron
UV STABILITY	D 4355	70% strength retained after 500hr
WEIGHT	D 5261	272 g/m <sup>2</sup> (8 oz/yd <sup>2</sup> )
FLOW RATE	D 4491	3,660 l/min/m <sup>2</sup> (90 gal/min/ft <sup>2</sup> )

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