

Wet Applicator Pump

Standard Hydraulic Model

TECHNICAL SUPPORT

The Ventsec technical support team understand the demanding nature of the mining industry and are there to assist with all problems and challenges 24/7.

MINIMISE PRODUCTION DOWNTIME

The WAP System allows for all spraying and pumping activities to be conducted without impacting any operations taking place throughout the mine subsequently reducing production downtime to zero.

SPARE PARTS

Critical spare parts and consumables can be tailored to suit your operations requirements. Ventsec can provide recommendations based on hours and working conditions which can vary significantly within each operation.



Sprayed Application



Pumped Application



The Ventsec Wet Applicator Pumping Systems are a phase forward for the prevention of dust disease in the underground mining industry. Our extensive research and development have provided the platform to introduce industry first dust mitigation systems assisting mining operations with improved control over health risk, compliance, and production.

The Ventsec design in combination with both leading Australian and German engineering is ideally suited for both the underground coal mining and civil engineering sectors.

Our versatile system is well suited for all ventilation and sealing activities, strata consolidation, strata sealing for the prevention of gas emissions, instant damming and water control, water storage and all major civil installations.

This hydraulically driven system has been designed, engineered, and manufactured to comply with the NSW Resources Regulator. Fitted within a purpose-built frame intended for accessing all areas in the underground mining sector.

Wet Applicator Pumping System Products

PRODUCTS

Engineered, designed and certified to suit individual site needs and requirements.

SERVICES AVAILABLE

- Technical support
- Designed, engineered, and certified products
- Site introduction and mobilisation
- Staff training and auditing
- Application support
- Product supply and scheduling
- VCD design and manufacture
- Geotechnical engineering
- Specialised installation teams
- Project management

Standard Hydraulic Model



Ventsec offer a range of specialised purpose engineered products to suit both pumping and spraying applications. Our products have been developed exclusive for this system with compressive and flexural strengths exceeding that of conventional methods currently utilised. Wastage from existing dry products being blown through mesh into return airways or lost at the hopper has been reduced by up to and exceeding 30% thus decreasing costs and increasing efficiency.

PERFORMANCE SPECIFICATIONS

Pumping rate	Up to 34LPM
Spray application rate	Up to 34LPM
Maximum water supply pressure	1770kPa

OPERATING LIMITS AND CAPABILITIES

Gross weight	1200kg
Length	2000mm
Width	1300mm
Height	1800mm
Hydraulic pressure minimum	50bar
Hydraulic pressure maximum	210bar
Pumping output (distance)	Up to 40m

Wet Applicator Pumping Systems are available for purchase or hire and can be tailored specifically to suit your site requirements.

Complete training packages are available to assist with mobilisation for both purchased and/or hired units.

Experience the unrivalled after sales support, service, and advice that only Ventsec offer.



PRODUCT SPECIFICATIONS

PRODUCT	APPLICATION
VShot-S	Wet Application Standard Shotcrete achieving 70MPa (Engineered) for all general shotcrete applications.
VShot-MP	Wet Application Multipurpose Shotcrete. Engineered for expedited early strength reaching in excess of 45MPa ideal for sealing applications.
VShot-FS	Wet Application Fast Set Shotcrete achieving 60MPa with set times at 30min, 20MPa in 12hrs. Commonly utilised in water control activities.
VShot-HS	Wet Application High Strength Shotcrete from 90 - 120MPa utilised in industrial and heavy civil installations.
VGrout-7	Highly adaptable grout and can be engineered to individual requirements. Exceptional compressive strength at water: powder ratios.
Vent Plug-HY	Sixth generation greatly adaptable high yield cementitious product, developed for the use in plug seals providing convergence / loading resistance when emplaced within a tunnel.
Vent Plug-HY-F	Fifth generation foaming high yield cementitious product, developed for the use in plug seals providing convergence / loading resistance when emplaced within a tunnel.

For more information on any of our products or services please contact us: