

**RAVEN**

**COAL ASH  
CONTAINMENT  
SOLUTIONS**



**LEACHATE MITIGATION LINERS  
COAL ASH IMPOUNDMENT CAPPING  
LARGE FACTORY ASSEMBLED PANELS  
TEMPORARY CAPPING/COVER SYSTEMS**



For over 50 years, Raven Industries has manufactured and fabricated engineered geomembrane liners and covers to support the environmental sector and meet our mission of working to protect Earth's resources.

## PROTECTING NATURAL RESOURCES

Many industries make a profound impact on our environment, and coal ash is no exception with the potential for containment failures. Effective coal ash practices are critical to preserving earth's precious resources as this waste can have devastating effects on lives and the health of our ecosystem.

The 2015 solid waste EPA regulations under Subtitle D of the Resource Conservation and Recovery Act (RCRA), provides safeguards for the proper handling, storage and impoundments of coal combustion residuals (CCRs). This regulation is geared to protect drinking water from hazardous contamination, prevent air emissions of coal ash dust into the environment, and foremost to help protect communities from catastrophic failures of coal ash surface impoundments.

All Raven products are tested to meet high performance standards and are verified through stringent quality control testing in our internal GAI-LAP accredited laboratory.



Raven Industries has a long history of manufacturing high performance geomembrane liners and covers for the environmental sector and is fully committed to producing essential products for the containment and protection of earth's natural resources. Raven is dedicated to developing targeted product solutions that not only solve precise application challenges, but integrate sustainable design practices for long-range performance.

## COAL ASH CONTAINMENT

Raven has produced reliable engineered geomembranes for the solid waste industry for decades, from temporary landfill covers to comprehensive permanent capping solutions for site closures. We work hard to find the right fit for each individual site challenge. Raven fabricates large one-piece stepped panels to maximize site coverage and minimize on-site field seaming. Coal ash impoundment liners and covers are prefabricated in a quality controlled factory environment to guarantee consistent seam integrity and overall membrane performance.

## COAL ASH PRODUCT LINE-UP

### Reinforced Dura♦Skrim® R-Series (20 & 24 mil)

- High strength scrim reinforcement
- Great dimensional stability
- Extra Large One-Piece Prefabricated Factory Panels

Applications: Short to Midterm Moisture Cover Systems, Wind and Dust Protective Covers

### Reinforced Dura♦Skrim® K-Series (30-36-45 Mil)

- Dense heavy-duty scrim reinforcement
- Exceptional dimensional stability
- Large Scale One-Piece Stepped Factory Panels

Applications: High Performance Cover Systems, Long-Term Exposure, Low Bearing Strength Foundations

### Unreinforced - Smooth HydraFlex™ Ultra (40 Mil)

- Exceptional durability, even in cold environments
- Highly flexible and conforming to uneven surfaces
- Meets GRI-GM17 Standard Specifications

Applications: Buried Liner Systems, Economical Barrier Caps.

### RAVEN ENGINEERED FILMS

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