



SOLVES YOUR TOUGHEST SCREENING CHALLENGES

JUST ASK OUR CUSTOMERS...



Major Wire's Flex-Mat® 3 High-Performance, Self-Cleaning Screen Media's undeniable success is based on solving critical screening challenges that greatly impact production. It's been proven in more than 20,000 applications worldwide. Here are just a few examples of the dramatic results Flex-Mat 3 Tensioned and Modular have delivered.

Note: Some customers see Flex-Mat technology as such an advantage that they have asked us not to reveal their identity.

No More Screen Media Cleaning With Flex-Mat 3 Modular Kentucky, United States



CHALLENGE: Screening clay-embedded limestone, Hinkle Contracting was forced to stop every 2 hours to clean its blinded screen media. It often took up to 30 minutes to clean and start up again.

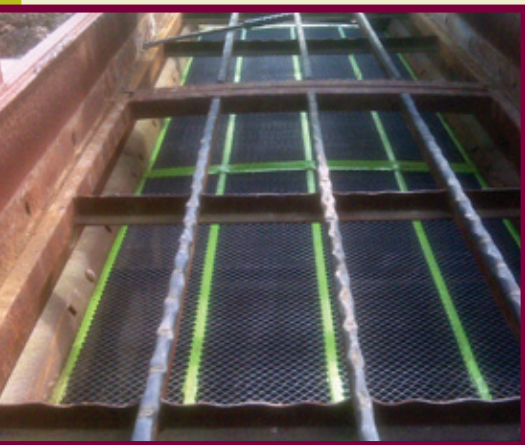
SOLUTION: Using 1/4-inch (6.4-mm) opening Flex-Mat 3 Modular screen media on the bottom deck of a scalping screen and a combination of 1/4-inch (6.4-mm) and 3/16-inch (4.8-mm) opening Flex-Mat 3 Modular on the bottom deck of a finishing screen, Hinkle increased the open area over the synthetic screen media, same as if it were using woven wire. This increase and the elimination of blinding erased the need to clean the screen media, increasing production by more than 1,500 tons per day.

Flex-Mat 3 Pays For Itself In Less Than 1 Day Australia

CHALLENGE: This manganese mining operation suffered from severe pegging of its traditional woven wire from near-size particles. It was shutting down daily, and often multiple times a day, to clean the media.

SOLUTION: After switching to 2-1/2-inch (63-mm) opening Flex-Mat 3 Tensioned, the operation increased its production by 140 tons per hour compared to woven wire. Recirculation of oversized material to the crusher was nearly eliminated and the operation has gone 2+ years since installation without stopping to clean the screen media.





“The First Product That Did What It Said It Would”

Mississippi, United States

CHALLENGE: Southern Crushing was screening wet recycled asphalt in the winter and during the rainy season. The 100-ton-per-hour operation experienced blinding and pegging of its 1/2-inch (12.7-mm) woven wire due to the sticky nature of the recycled asphalt and was forced to shut down for 30 minutes every 2 hours to clean the screens that were blinding up to 6 inches (152 mm) deep. Stainless steel slotted wire minimized the blinding, but passed oversize product and resulted in out-of-spec stockpiles.

SOLUTION: With Flex-Mat 3 Tensioned, Southern Crushing has eliminated these problems and is producing more than 4,000 tons of potential sellable material every month because of the added production time. *“In spite of my skepticism, Flex-Mat 3 was the first product that did what it said it would. We are able to produce spec RAP and clean out fines from crushed concrete no matter how wet it is. We can even screen in a complete downpour.”*

– Tim Lipsmeyer, Owner



Versatility Eliminates Unneeded Screening Plant

Midwestern United States

CHALLENGE: Screening 4 concrete stone specifications with woven wire and a competitive self-cleaning screen media, this operation was experiencing end-product contamination with elongations and fines. In addition, the existing screen media did not align with the screen box bucker bars, decreasing potential throughput. The operation was forced to split production of the 4 products between 2 screen boxes.

SOLUTION: Using Flex-Mat 3 Tensioned on all 3 decks, the slivers and elongations contaminating the middle deck’s product were eliminated. Flex-Mat 3 S also increased middle deck spec production and allowed the fines to fall through to the bottom deck. By using a smaller Flex-Mat 3 opening on the bottom deck, the screens let the minus 0.093-inch (2.4-mm) material properly fall through to produce clean aglime. Flex-Mat 3 allowed the operation to produce all 4 materials from a single screen box.



Wet Material Production Increased By 100%

British Columbia, Canada

CHALLENGE: Morrissey Aggregates shut down anytime there was wet weather because the raw aggregate high in moisture content and clay was clogging its previous woven wire screen media.

SOLUTION: Since installing Flex-Mat 3 Tensioned, the operation has achieved higher production volumes—more than 400,000 tons in total—and sold their product to a larger variety of companies. *“We see a significant increase in production most days compared to what we would do with our old screens, but on a wet day, it’s a 100% increase because we would have been shut down and parked in the past due to everything clogging up.”*

– Skeet Podrasky, Owner

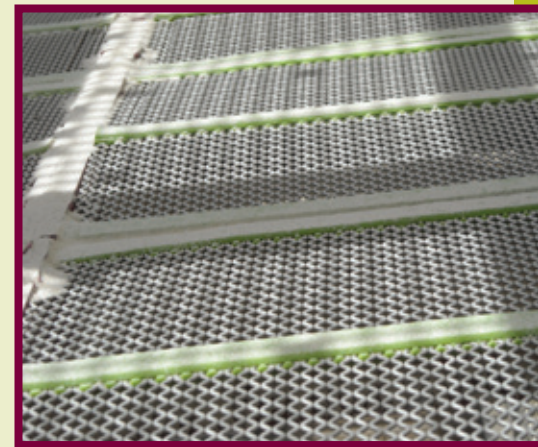


Mineral Producer Saves Thousands At The Dock

The Americas

CHALLENGE: As soon as the top surface of this operation's traditional polyurethane screen media was worn, it started passing material larger than specified. To avoid this, the operation was changing the media every 2 to 3 months. The polyurethane was also experiencing severe pegging and had to be washed regularly.

SOLUTION: Using Flex-Mat 3 Modular stainless steel on 4 single decks, the operation was able to pass in-spec minerals for up to 50% of the wire's life, meaning the producer only has to replace it every 8 to 10 months. Flex-Mat 3's advanced vibrating wire technology has completely eliminated the pegging challenge. The producer has reduced its downtime spent cleaning and replacing screen media and is now able to load the ship faster, saving thousands in shipping costs previously spent keeping the ship docked while being filled.



Limestone Quarry Solves Pegging To Meet Superpave Spec

Midwestern United States

Midwestern United States

CHALLENGE: With production rates of 200 tons per hour, the original polyurethane on the middle deck was more than 30% pegged, causing it to blind over and retain fine material in the asphalt chip. The end product was dirty, out of spec and unusable for Superpave.

SOLUTION: Flex-Mat 3 Modular helped the operation eliminate the pegging and produce clean material that meets gradation testing for Superpave in 1 pass. The operation now receives up to 40% more material throughput and produces thousands of tons of salable material each month that was previously stockpiled as waste.



Side-By-Side Testing Crowns Winner

Missouri, United States

CHALLENGE: Base Rock Minerals was experiencing severe blinding of its woven wire and had to shut down during heavy rain. End-product contamination was affecting the amount of stone produced for ready-mix concrete and asphalt chips.

SOLUTION: Base Rock originally installed Flex-Mat 3 Tensioned and traditional polyurethane in a side-by-side test. The polyurethane did okay, but had fewer openings. Flex-Mat 3 stopped the blinding, cleaned up the product and provided significantly more open area. The operation can now crush in heavy rain and feed more material to the screen, increasing production from about 400 tons per hour to 550 tons per hour.

FOR ADDITIONAL SUCCESS STORIES OR MORE INFORMATION ON EACH OF THESE, CLICK THE "PROVEN SOLUTIONS" TAB AT WWW.MAJORWIRE.CC.

CREATING GREATER SCREENING ACTION

Flex-Mat 3's distinctive lime-green polyurethane strips firmly bond individual non-woven wires allowing them to vibrate independently at different frequencies, creating more screening action on each screen deck.



FLEX-MAT³



Tensioned



Modular

Flex-Mat 3 Tensioned

- Increases open area screening capacity by up to 30% versus woven wire mesh
- Increases production by up to 40%
- Significantly reduces downtime spent cleaning and replacing screen cloth
- Lasts up to 3 times longer than traditional woven wire mesh

Flex-Mat 3 Modular

- Results in up to 50% more open area screening capacity than polyurethane & rubber panels
- Increases production by up to 40%
- Significantly reduces downtime spent cleaning panels
- Available in a wide range of frame styles

Offering Solutions & Strong Local Support



- On-site **Screening Plant Audits** to identify specific issues impacting production and recommend solutions through a timely, detailed report



- Local **Screen Maintenance Simplified Seminars** to educate plant operators on screening problems and proven solutions



- **Results Guaranteed Program** to remove risk for new customers or applications



MAJOR[®]
SINCE 1884
MAJOR WIRE INDUSTRIES LIMITED

www.majorwire.cc
Phone: +1 (450) 659-7681
Email: major@majorwire.cc
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