



TRIMAY®

INFRASTRUCTURE

"No Wear Comes Close"®

ABOUT TRIMAY[®]

Trimay[™] is a manufacturer of advanced wear materials that are designed to significantly increase wear life on equipment components for the Asphalt, Concrete, Aggregate and Construction industries. These patented alloys are engineered to provide exponential increases in wear life and significant reductions in repair and maintenance costs resulting in increased maintenance ROI.

Trimay Advanced Wear Materials are supplied as Wear Plate, Wear Pipe, Elbows, Transitions and Bends.



INFRASTRUCTURE APPLICATIONS

- Slat Decks
- Pugmill Liners
- Paver Screed Plates
- Paver Floor Plates
- Re-mix Paver Auger Systems
- Shuttle Buggy conveyor floors
- Shuttle Buggy front housing liners

- Pick-up Machine Floor Plates and Chain Guides
- Cold Mix Reclamation Machine Liners and Skid Shoes
- Loader Bucket Liners
- Grader Moldboard Liners
- Crusher Feed Chutes and Transitions
- Mixer Drum Liners and Fins
- Dozer Blade Liners



CASE STUDY 1 - Screed Report

PROBLEM

Customer purchased a new re-mix Shuttle Buggy and upon inspection, found that the front auger housing was worn through after only 300 hours of use.

SOLUTION

Customer chose Trimay to manufacture a replacement auger housing out of Trimay™ T157 Chromium Carbide wear plate. The Trimay replacement auger housing was installed and the Shuttle Buggy was put back into service.

RESULT

The auger housing was inspected regularly and after 3000 hours of use the customer chose to replace a small portion of the Trimay replacement auger housing that was showing wear. The remainder of the auger housing was left in place. This repair was done during off-season with no down time recorded during paving operations.

The aggregate conditions in the geographic operating area for this equipment are extremely hard and abrasive glacial till



CASE STUDY 2 - Shuttle Buggy

PROBLEM

The paving contractor was forced to change screed plates on their paving fleet numerous times throughout the paving season due to excessive wear on the OEM and aftermarket standard screed plates. The downtime during paving season was causing loss of production resulting in an unacceptable amount of lost revenue.

SOLUTION

The paving contractor contracted Trimay Wear Solutions to manufacture Trimay screed plate assemblies using Trimay™ T156m Wear Plate to replace the OEM and Aftermarket standard screed plate assemblies. The Trimay Screed plate assemblies were installed during off-season maintenance and assessed and measured regularly when the paving equipment went back to work.

RESULT

The Trimay Screed Plate assemblies out-performed their OEM counterparts by more than 10:1 in most cases. The image on the right shows 3 Trimay™ "worn out" screeds that were pulled out of service. All three of these screed plates paved between 750,000 and 850,000 tons of asphalt. OEM screed plates pave about 80,000 tons of asphalt in the same aggregate conditions. The paving contractor is able to pave all season without changing screed plates in the field and has eliminated the lost production and revenue. In most cases, the screed plates will last 2-3 seasons before requiring replacement.

The aggregate conditions in the geographical area of operation of this equipment is extremely hard and abrasive glacial till



WHY TRIMAY®

QUALITY

Tightly controlled manufacturing process

Commitment to continuous improvement through Research and Development.

- Recently Trimay has developed two new alloy blends. One achieves abrasion resistance approaching Tungsten Carbide at one quarter the cost. The other achieves the same wear with the impact resistance of Manganese.

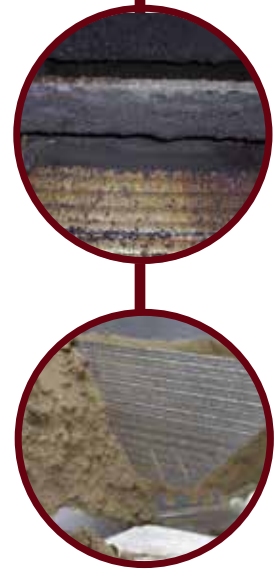
TRACEABILITY

All products manufactured by Trimay can be traced back to source. Information on each component, alloy applied and testing performed is readily available to the client.

RELIABILITY

Trimay Products are submitted to rigorous, random testing to ensure consistency and high standards.

Decades of repeat business and successful field applications show the confidence our clients have in Trimay Wear Materials.



TRIMAY WEAR PLATE AND WEAR PIPE ALLOYS

All Trimay alloys are proprietary and blended in-house. They are available as clad plate in 3mm to 17mm overlay thickness and 9mm to 50mm total thickness. They are also available in clad pipe from 3"-48" diameter and as consumables in wire and electrode.

T168I

T168i is a revolutionary new material specifically designed as a chromium free and heat-treatable material. It provides the best performance in aggressive environments where severe impact and abrasive wear are critical sources of material failure.

T171

T171 is a patented Boron Carbide iron based steel overlay wear solution with a near nanoscale (submicron) microstructure. T171 is well suited for the toughest jobs in the most extreme service environments. T171 is developed by Trimay® Wear Plate Ltd.

T170

T170 is a Tungsten Carbide alloy in a nickel based steel overlay wear solution with a unique proprietary composition designed to withstand heavy impact and severe wear environments.

T138, T156 AND T157

T138, T156 and T157 are Chromium Carbide alloys in an iron-based steel overlay deposit. Each of the Alloy blends provide unique combinations of wear resistance, impact resistance and co-efficient of friction. T157 is our best-selling product with decades of blind wear tests showing that it is the best CrC Wear Plate available on the market.



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