PAVER MAT SEGREGATION
OBJECTIVES

• Continuous
• Random
• Material Management
• MTV’s
• Paver Hopper Inserts
Segregation prevention or cause

- Dropping material
- The biggest cause of segregation is allowing materials to be dropped on to a pile.

Rocks roll off pile
Material Management

Key Points in Prevention of Segregation:

• Keep Material Contained
• Prevent Excessive Rolling of Materials
• Move Material in a Smooth Uniform Uninterrupted Manner.
Visual Segregation

SUBJECTIVE

None/Blemish  Slight  Moderate  Severe
COMPARISON

ALBERTA

ONTARIO

Photograph 1- Slight Segregation
COMPARISON

ALBERTA

ONTARIO

Figure 5.1.2 (c) Medium Segregation
COMPARISON

ALBERTA

ONTARIO
Continuous Segregation
Material Management

Key Points in Prevention of Segregation:

• Keep Material Contained
• Prevent Excessive Rolling of Materials
• Move Material in a Smooth Uniform Uninterrupted Manner.
What to look for?
Looking across the tunnel will tell you a lot about the head of material.

You could resolve this problem by adjusting the flow gates or slow down and adjust the pile height.
Auger Height

Auger height controls the head of material and is determined by mat thickness.

Add 2 inches, or more for larger aggregates. (50mm)
Feeder shadows
Proper Head of Material
Material Management

Flow Gates Set Properly

- Material level at center of auger chamber at half level
- Material level in center area controls auger speed
- 20 – 40 RPM
What to Look For?
Proper Feed?
Managing the Feed System
Random Segregation
When working with segregating materials, the hopper wings should only be cycled with the hopper relatively full.

This bunches the segregated materials that collect in the hopper wings instead of flipping them into an empty center area.
Hopper too low
Load End?
Random
Key Points in Prevention of Segregation:

• Keep Material Contained
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MTV’s
Segregation prevention or cause

- Dropping material
- The biggest cause of segregation is allowing materials to be dropped on to a pile.

Rocks roll off pile
HOPPERS 101
The Evolution of Paver Inserts

- 1st Generation
- 2nd Generation
Capacity
3rd & 4th Generation
5th Generation
What to Look For?
Maintain Your Equipment
Questions?