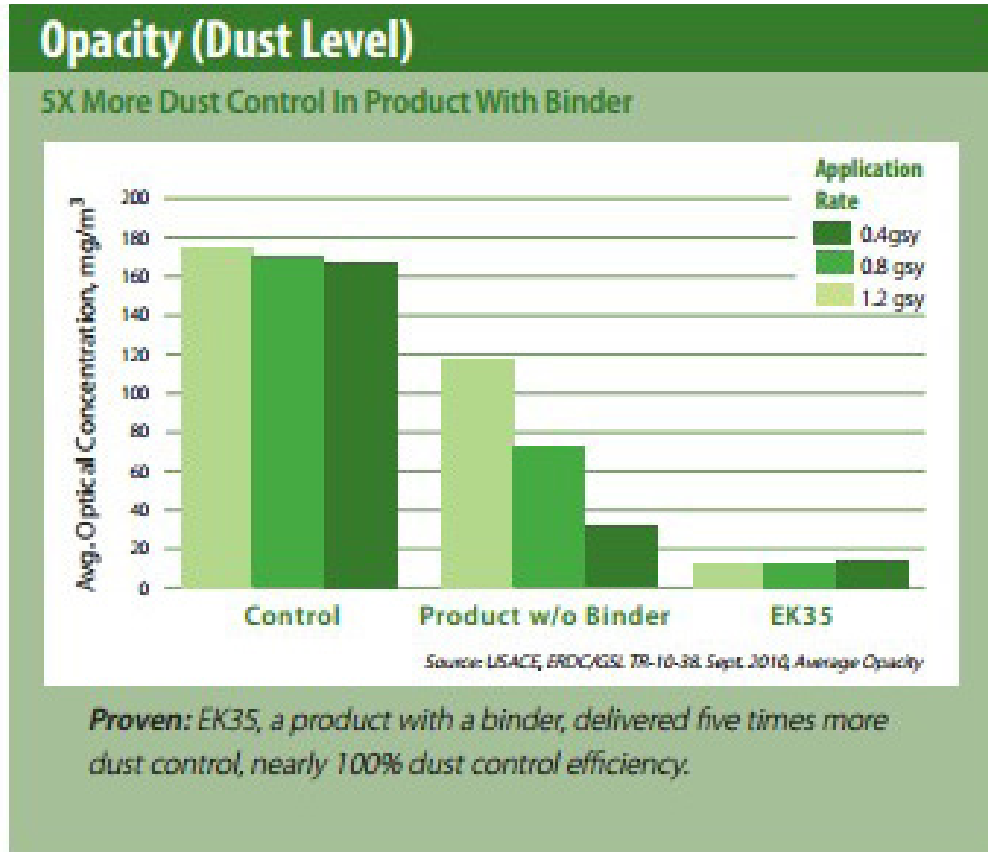


# Gravel Runways

## Eliminate Dust - U.S. Army Corp. of Engineers Study



### RESULTS

Binder technology used in Midwest’s Fines Preservation Program reduced the dust concentration or opacity by over 96% when compared to the control/untreated tests.

Binder technology used in Midwest’s Fines Preservation Program reduced the dust concentration or opacity by over 90% when compared to the product without binder.

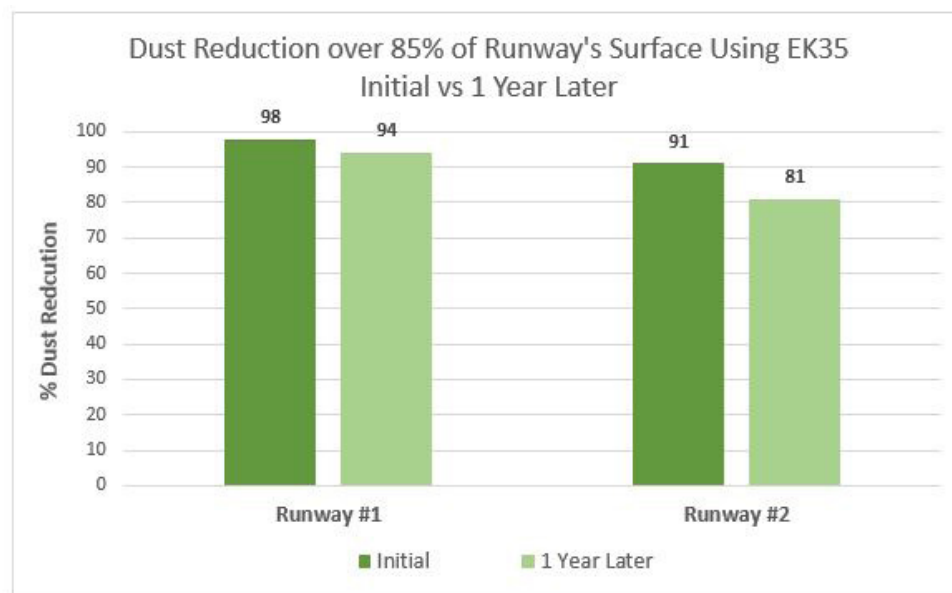
### TESTING METHOD

The results above were produced from a comprehensive series of tests performed by the Army Corp of Engineers in an effort to study and understand current dust palliatives on the market and their performance. This two-part study consisted of laboratory testing as well as field tests and data collection. The laboratory portion evaluated the performance of 13 dust palliatives under simulated helipad conditions at different application rates. The field portion of the study included constructing 13 helipads and subjecting them to live flight testing. From these tests, the Army Corp of Engineers collected and analyzed data to assess the performance of each products. The graph above illustrates their findings which show that the binder technology used in the Fines Preservation program dramatically reduces the volume of fines removed from the surface when compared to untreated surface as well as surface treated with products that do not contain binder.



# Gravel Runways

## Eliminate Dust - University of AK Fairbanks Study



### RESULTS

#### Runway #1:

Initially after installation, the EK35 treated runway had a 98% reduction in dust level over 85% of the runway's surface.

1 year after installation, the EK35 treated runway maintained a 94% dust reduction over 85% of the runway's surface.

#### Runway #2:

Initially after installation, the EK35 treated runway had a 91% reduction in dust levels over 85% of the runway's surface.

1 year after installation, the EK35 treated runway maintained a 81% reduction in dust levels over 85% of the runway's surface.

### TESTING METHOD

Midwest, along with the University of Alaska Fairbanks (UAF), conducted a study which monitored and measured the performance over time of Midwest's Fines Preservation products that were topically applied to the surface of gravel runways in Alaska. This research consisted of taking dust readings throughout the entire runway using the DUSTM. These readings were taken over time to evaluate the long-term ability of these products to eliminate dust and reduce the loss of fines. These results are proof that EK35 is an effective product for long-term dust control and fines preservation.