THE CHEMISTRY THAT PAVES THE WAY FOR BETTER PERFORMANCE
OVER 20 YEARS OF PROVEN PERFORMANCE

There are inherent climate, durability, and delivery requirements with the development and application of asphalt. To meet these challenges, Dow offers the paving industry a better performing and more efficient binder modifier – DuPont® ELVALOY™ RET.

Since 1991, innovations have been using DuPont® ELVALOY™ RET (Reactive Elastomeric Terpolymer) for roads around the world. These binder modifiers are specially designed for longevity, versatility and added value all while minimizing safety hazards from road deterioration.

ELVALOY® RET performs better than other binder modifiers in: 

- **DURABILITY**
  - High resistance to different temperatures
- **REACTIVITY**
  - High reactivity with the binder
- **PERFORMANCE EFFICIENCY**
  - Designed for longevity & value
- **EXREME CLIMATES**
  - High resistance to different temperatures
- **ROBUST**
  - Innovation for a versatile & universally applicable binder

DuPont® ELVALOY® RET Perfaoms Better Than Other Binder Modifiers

Low Temperature Performance Test

Thermal cracks in pavement occur when temperature-related forces of expansion and contraction exceed a binder’s ability to stretch or compress enough to conform to these movements. Roads modified with DuPont® ELVALOY™ RET® have high resistance to changes in temperatures. The binder modified with DuPont® ELVALOY™ RET® displayed the greatest resistance to rutting at different temperatures and stress levels. Binder modified with DuPont® ELVALOY™ RET® displayed the greatest resistance to rut formation in wide extreme temperatures.

**Figures:**
- Figure 1: Low Temperature Performance of Binder
- Figure 2: Multiple Stress Creep Recovery Test
- Figure 3: Multiple Stress Creep Recovery Test
- Figure 4: Hamburg Rutting Test
- Figure 5: Hamburg Rutting Test Visual Results
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