With today’s rapidly aging and deteriorating infrastructure, government agencies, asphalt producers and contractors are being challenged to build more durable, longer-lasting roads using technologies that are effective, versatile and promote long-term pavement performance. Both the igneous and metamorphic construction aggregates of the Western United States present asphalt mix designers with a unique challenge. The surface chemistry of these aggregates aggressively promotes detachment of the asphalt from the aggregate surface in the presence of water, otherwise known as stripping and moisture damage. This leads to Tensile Strength Ratio (TSR) and Hamburg Wheel Tracking test performance that is poor and indicative of pavements that will underperform and fail prematurely.

Conventional liquid anti-strip technology does not sufficiently fix this stripping problem. Recognizing this gap in additive technology, Road Science has developed a solution to this problem – AD-here XL9000. The chemistry of AD-here XL9000 is specifically engineered for these particularly challenging aggregates to drive more effective and higher frequency chemical bonding. The result is powerful and longer-lasting adhesion of asphalt to these specific aggregates, making roads in the Western United States last longer.

**LIQUID ANTI-STRIP CHEMISTRY ENGINEERED FOR WESTERN UNITED STATES AGGREGATES**

**BENEFITS**

- Extends pavement life by promoting better chemical adhesion of asphalt to aggregate
- Protects pavement from stripping and moisture damage caused distresses, such as raveling, rutting and pothole formation
- Compatible with most asphalt modifiers
- Compatible with all aggregate types
- Improves mix workability for easier handwork
- Remains effective in asphalt stored at 300 °F (149 °C) for several weeks
- No heated storage required, easy to handle and pump in cold temperatures
MARKET APPLICATIONS

ASPHALT PAVING USING:

- Non-modified asphalt
- Modified asphalts including those modified with:
  - Styrene-butadiene-styrene (SBS)
  - Styrene-butadiene rubber (SBR)
  - Ethylene-vinyl acetate (EVA) polymers
  - Ground tire rubber (GTR)

WESTERN UNITED STATES
AGGREGATE TYPES INCLUDING:

- Granite
- Diabase
- Diorite
- Basalt
- Gabbro
- Rhyolite
- Andesite
- Gneiss
- Sandstone
- Quartzite
- Slag
- Natural Sand
- Recycled asphalt
- Recycled asphalt pavement (RAP)

THE ROAD SCIENCE ADVANTAGE

ArrMaz’s Road Science division is a leader in the development of asphalt additives, emulsifiers, and paving and recycling system technologies for the asphalt industry worldwide. Our offerings span the entire customer value chain from producing key chemical components for asphalt refineries, terminals, emulsion plants and hot mix asphalt (HMA) plants, to providing laboratory and field engineering support of pavement applications. Road Science delivers responsive, comprehensive and dependable customer support focused on helping our customers succeed. Through our experienced staff of professionals and world-class AASHTO Materials Reference Laboratory (AMRL) accredited laboratory, we work alongside our customers to:

- Improve product quality and consistency
- Improve product performance
- Bring new products to market
- Solve product problems
- Increase profitability
- Increase operational efficiency

Contact Road Science today and learn how AD-here XL9000 can help you make the grade. Call 918-960-3800, email customerservice@roadscience.net or visit our website at roadscience.net for further information.