In order to grow commerce and ensure ease of travel, businesses and the motorist public expect government agencies, asphalt producers and contractors to build roads that are safer, longer-lasting and provide an optimal ride experience. For 25 years and counting, an increasing number of stakeholders continue to rely on AD-here liquid anti-stripping additives more than any other. AD-here liquid anti-strips extend pavement life by enabling stronger adhesion of the asphalt binder to aggregate, safeguarding against destructive pavement forces such as traffic loading, water intrusion and oxidation. Protection from these forces leads to fewer potholes and reduced rutting, creating safer, smoother and better roads for years to come.

The AD-here line of additives offers industry many different feature options depending on specific customer needs. All AD-here products are cost-effective versus other anti-stripping technologies, and are efficient and easy to work with. Low-odor options improve the odor and smoke problems typical of competing additives which can be problematic from environmental, occupational and regulatory perspectives, and promote better plant personnel and paving crew comfort.

**BENEFITS**

- Extends pavement life by promoting stronger chemical adhesion of asphalt to aggregate
- Protects pavement from stripping and moisture damage caused distresses
- Ride quality remains better for longer by safeguarding against 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
- Low odor, low smoke options available for improved plant personnel and paving crew comfort
- Products available with chemistry engineered specifically for certain aggregates types and geographic regions

**LONGER-LASTING ROADS**

**SAFER, SMOOTHER ROADS**

**INCREASED OPERATIONAL EFFICIENCY**

**IMPROVED WORKER COMFORT**

**CUSTOMIZED SOLUTIONS**
MARKET APPLICATIONS

ASPHALT PAVING USING:
- Non-modified asphalts
- Modified asphalts including those modified with:
  - Styrene-butadiene-styrene (SBS)
  - Styrene-butadiene rubber (SBR)
  - Ethylene-vinyl acetate (EVA) polymers
  - Ground tire rubber (GTR)
- Granite
- Diabase
- Diorite
- Basalt
- Gabbro
- Rhyolite
- Andesite
- Dacite
- Chert
- Marble
- Quartzite
- Gneiss
- Natural Sand and Gravel
- Limestone
- Dolomite
- Sandstone
- Slag
- Recycled Asphalt Pavement (RAP)

AGGREGATE TYPES INCLUDING:
- Granite
- Diabase
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- Slag
- Recycled Asphalt Pavement (RAP)

AD-HERE FEATURES

<table>
<thead>
<tr>
<th>Comparison Criteria</th>
<th>AD-HERE LOF 65-00</th>
<th>AD-HERE HP Plus</th>
<th>AD-HERE XL9000</th>
<th>AD-HERE 77-00</th>
<th>AD-HERE 62-40</th>
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<tbody>
<tr>
<td>Low Odor</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Low Smoke</td>
<td>✓</td>
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<tr>
<td>Compatible with modified asphalt</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Protects against moisture damage</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>Improves mix workability</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Efficacy with prolonged storage in asphalt</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td>No heated storage required</td>
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<tr>
<td>Passes adhesion tests with most challenging asphalt and aggregate combinations</td>
<td>✓</td>
<td>✓</td>
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</table>

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 re:source 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 can help you make the grade.

Call 918-960-3800, email customerservice@roadscience.net or visit our website at roadscience.net for further information.