NovaGrip D-761 is a next-generation, worker-friendly liquid anti-strip that extends pavement life by creating powerful chemical adhesion of bitumen to aggregate, protecting them from moisture damage and resultant pavement distresses such as raveling, pothole development and rutting. It is the safest additive option available to industry, composed of non-hazardous chemistry and classified non-regulated for transport. NovaGrip D-761 is used to design mixes that conform to typical specifications, including AASHTO T283: Method of Test for Resistance of Compacted Bituminous Mixture to Moisture Induced Damage, AASHTO T324: Method of Test for Hamburg Wheel-Track Testing of Compacted Hot Mix Asphalt (HMA), AASHTO R35: Standard Practice for Superpave Volumetric Design, and equivalent BS EN test standards, including EN 12697-11: Determination of the affinity between aggregate and bitumen.

**APPLICATIONS**

Bitumen Paving

**FEATURES**

**THE SAFEST ADDITIVE FOR WORKER EXPOSURE**
Composed entirely of non-hazardous chemistry and classified non-regulated for transport, making it safe for workers and better for the environment.

**NO ODOR AND NO SMOKE**
Worker-friendly for improved comfort of plant and paving crew personnel.

**WORKS WITH ALL BITUMEN MODIFIERS**
Does not affect performance grade of polyphosphoric acid (PPA) modified bitumen.

**PASSES TENSILE STRENGTH RATIO (TSR) AND HAMBURG WHEEL TESTS**
Promotes better coating and chemical adhesion of bitumen to aggregate for moisture damage protection.

**BETTER MIX WORKABILITY**
Enables easier hand-work.

**HEAT STABILITY**
Remains effective several weeks to months in hot bitumen.

**COMPATIBILITY**

**BITUMEN**
Compatible with all bitumen types including those modified with polyphosphoric acid (PPA), styrene-butadiene-styrene (SBS), styrene-butadiene rubber (SBR), ethylene-vinyl acetate (EVA) polymers and ground tire rubber (GTR).

**AGGREGATES**
Compatible with various aggregate types including granite, diabase, diorite, basalt, chert, limestone, dolomite, marble, sandstone, natural sand, slag and recycled asphalt pavement (RAP).
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USAGE RECOMMENDATIONS

NEAT AND MODIFIED BITUMENS:
- 0.25 – 0.75% by weight of total bitumen in mix
- Usage rate should be determined by user based on degree of aggregate coating and moisture sensitivity testing at desired production temperature

OPTIONS FOR ADDING NOVAGRIP D-761 TO BITUMEN:
1. Add to bitumen storage tank and agitate mechanically or through pump circulation
2. Add at bitumen terminal by injecting into bitumen line as transport tanker is being charged
3. Add at bitumen mix plant by injecting into the bitumen line (continuous plant) or weigh hopper (batch plant)

PHYSICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Property:</th>
<th>Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance, 25 °C</td>
<td>Brown</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Density, 25 °C</td>
<td>1.01 kg/L</td>
</tr>
<tr>
<td>Viscosity, 25 °C</td>
<td>1,900 cP</td>
</tr>
<tr>
<td>TSCA Inventory</td>
<td>Listed</td>
</tr>
<tr>
<td>REACH</td>
<td>Compliant</td>
</tr>
<tr>
<td>C.A.S. Number</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

The density and viscosity data reported are typical and not specifications. Typical ranges for density and viscosity values are ± 2% and ± 20%.

HANDLING AND STORAGE

Always handle NovaGrip D-761 in accordance with Safety Data Sheet (SDS) and Road Science Asphalt Additives Handling and Storage Guidelines document. Avoid product contamination with other materials. Recommended product handling temperature range is 38 – 60 °C.

AVAILABILITY

NovaGrip D-761 is available in 1,000 L IBC totes (997.7 kg net weight) and 208 L steel drums (199.5 kg net weight).

TECHNICAL SUPPORT

To request additional product information, contact your regional Road Science representative. You can also contact us at 918-960-3800 or customerservice@roadscience.net, or visit our website at www.roadscience.net.