Transportation Infrastructure in Cold Climates

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Can We Make Positive Changes?

YES!

WE ARE CIVIL ENGINEERS!
WMA for Alaskan Conditions

- Hot Mix (155 °C)
- WAM (110 °C)

- Hot mix asphalt 280°F (138°C) to 320°F (160°C)
- Warm mix asphalt 250°F (121°C) to 275°F (135°C)
- Cold mix asphalt around 60°F (16°C)
Sasobit-Warm Mix Asphalt Application in Petersburg
Use of Wicking Fabric to Prevent Frost Heave
Use of Wicking Fabric to Prevent Frost Heave

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<th>Treatment</th>
<th>After</th>
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Low Temperature Cracking in Northern Region, Alaska
Paving Fabric-Reinforced Asphalt Road
Pervious Concrete
San Antonio I-35

Safety in Wet Weather
Challenges
Sustainable Benefits **Beyond** Longevity

*Can be achieved through design and mixture optimization!*

- Improved Fuel Economy
- Lower Energy Footprint
- Light Colored and Cool
- Less Fuel Consumed During Construction
- Industrial By-Product Use
- Renewal and Recycling
- Improved Stormwater Quality
- New Quiet Surface Textures
Contact

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