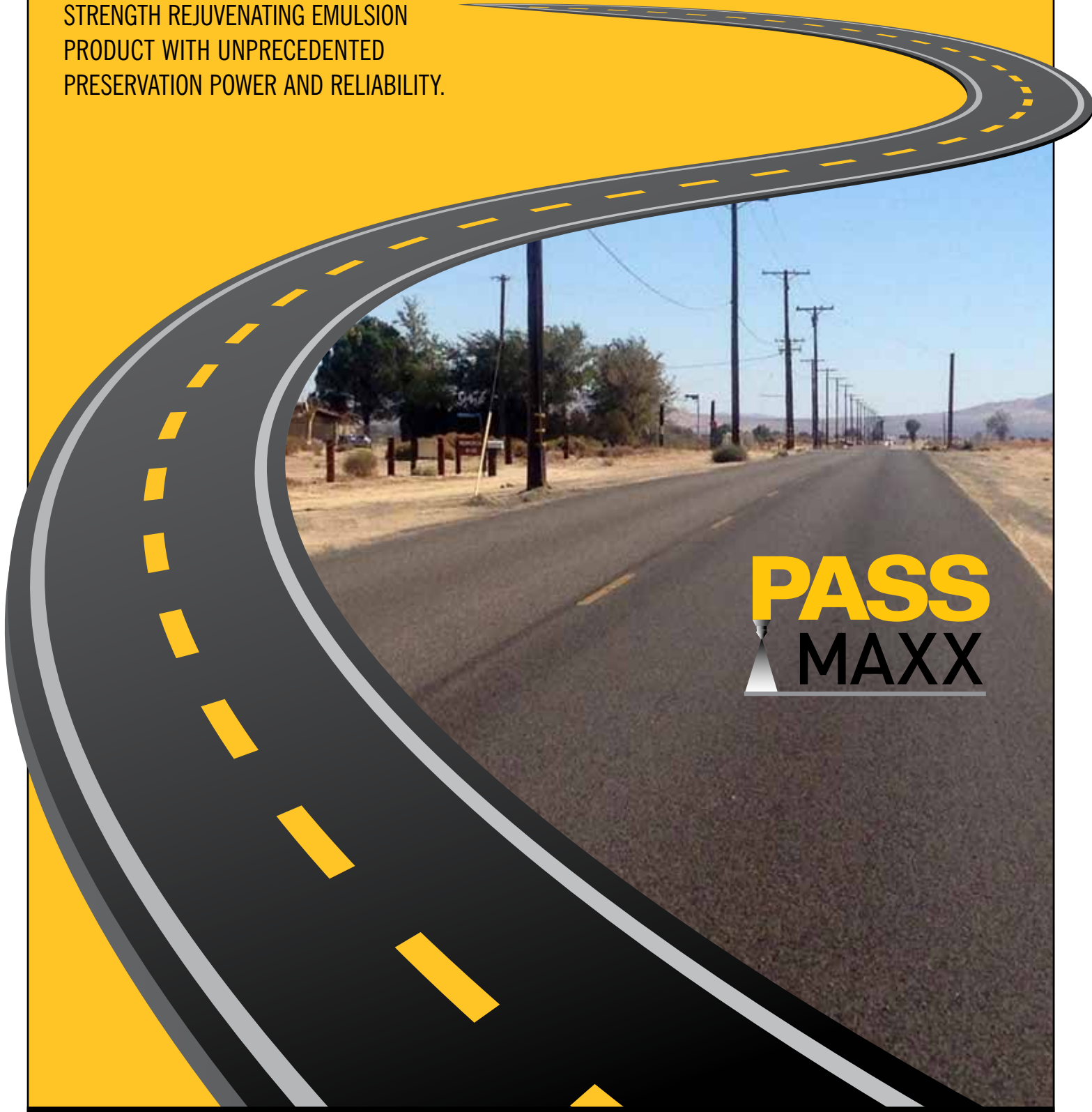


PASS MAXX GIVES AGENCIES AN EXTRA
STRENGTH REJUVENATING EMULSION
PRODUCT WITH UNPRECEDENTED
PRESERVATION POWER AND RELIABILITY.



**PASS
MAXX**



SUSTAINABLE SOLUTIONS
FOR PAVEMENT PRESERVATION
AND RECYCLING



PASS MAXX offers roadways:

- Improved, longer lasting protection from oxidation and surface distress
- Long-term solutions to correct a wider range of surface distress
- Improved high and low temperature performance, and
- Highly reliable performance both during application process and thereafter

PASS MAXX features an innovative formulation that differs from standard emulsions in two significant ways.

- First, the PG-graded asphalt binder is enhanced with unrefined, natural asphalt known as Gilsonite.
- Secondly (and as a result of the properties of the enhanced asphalt) the product contains as much as 2 to 10 times the amount of rejuvenating agent compared with currently available PMRE's, while remarkably remaining even more stable, resilient and workable in the field with outstanding chip retention.



For a rejuvenating emulsion, the amount of rejuvenator is the key!

- The rejuvenating agent penetrates the existing pavement surface and restores the light-end oils lost due to weathering. This helps restore the underlying asphalt and inhibits further degradation.
- The rejuvenator works on the sides of the crack face to soften them and form a more resilient, flexible bond with the surface treatment. This enables:
 - A longer-term crack seal and protection of the pavement
 - A longer lasting surface treatment lifecycle with resistance to reflective cracking
 - Better initial performance following application, including resistance to shoving and wheel marks during the curing period.



How PASS MAXX achieves a higher content of rejuvenator:

- PASS MAXX features a base asphalt that is enhanced with Gilsonite, a natural unrefined asphalt ore that improves the high and low temperature properties of the asphalt to make it more stable even when its composition is softer. Improving the characteristics of the asphalt base makes the application more user-friendly and dependable in a variety of atmospheric conditions.
- The product features a high quality polymer that does not swell within a rejuvenating emulsion. This higher quality polymer helps make the product extremely tough, flexible and long lasting.

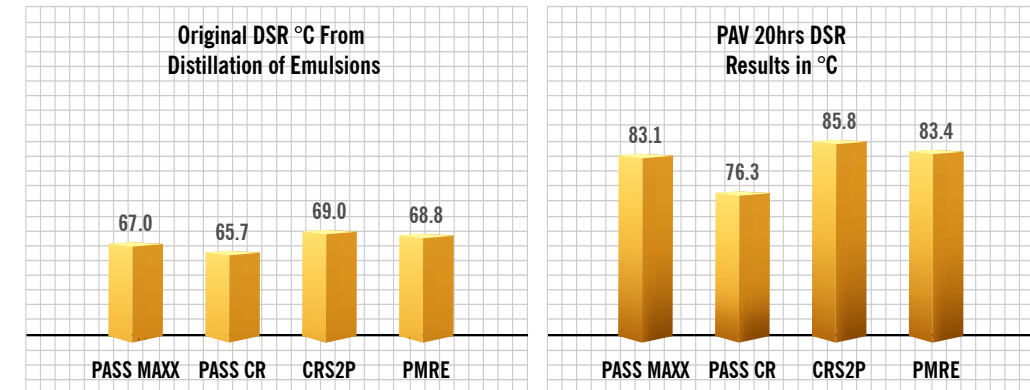


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The proof is in the testing:

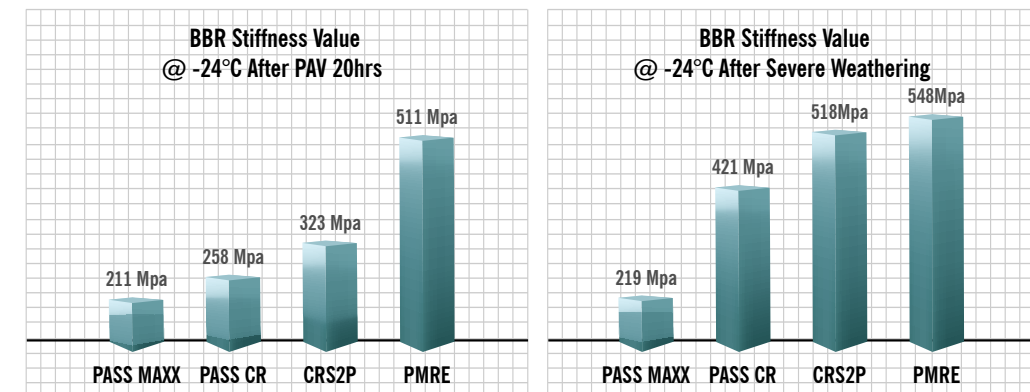
- At higher temperatures, PASS MAXX with its high rejuvenator content maintains its toughness and resiliency as well as high quality CRS-2P emulsions that contain stiff asphalt binders and no rejuvenating properties. Therefore, PASS MAXX provides the added benefit of crack-sealing in higher temperatures without the typical risks of a softer material.
- After intense laboratory aging and degradation of the binder, PASS MAXX maintains its viscosity and elasticity. This suggests that the enhanced benefits of the product will continue to add value and protection.
- At lower temperatures, PASS MAXX vastly outperforms other emulsions with its elasticity and resistance to cracking.
- Even after aggressive aging of the binder, the beneficial properties of PASS MAXX remain virtually undiminished. This suggests PASS MAXX presents an excellent choice on roads in climates experiencing extreme high and low temperatures.

The Dynamic Shear Rheometer (DSR) gives Viscoelastic properties of the binder material. Viscous=non-recovery and Elastic=recoverable. The reading is a combination of both properties. All samples meet a PG 64 classification for original material, giving good performance at that temperature.



AFTER 20 HOURS IN THE PRESSURE AGING VESSEL (PAV) THE BINDER AGES AND BECOMES MORE VISCOUS AFTER MODERATE AGING.

Results from the Bending Beam Rheometer (BBR) show stiffness values at low temperatures. Lower Mpa number means better low temperature flexibility. After 20 hours in the PAV Stiffness increases in all samples as moderate aging occurs. After severe weathering there is significant stiffening in all the samples except the PASS MAX that remains virtually unchanged.



THE RESULT IS BETTER RESISTANCE TO WEATHERING AND OXIDATION AND GREATER LONG TERM FLEXIBILITY OF THE PASS MAX MATERIAL.



Main Street Materials has over 20 years of experience providing road maintenance products and services. Our mission is to understand our customers' needs and respond to them by providing the most suitable products at competitive pricing. We continuously look for product improvements and at new technologies. We evolve with the marketplace, and strive to be your best source for all of your road maintenance needs.



Western Emulsions is a supplier of sustainable asphalt emulsion solutions for pavement preservation, repair and recycling. Or to put it very simply, we help you prevent your potholes. Our Company is founded on the commitment to provide high-quality products, constant innovation and expert service to our customers.

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