

# RePLAY<sup>®</sup>

## AGRICULTURAL OIL SEAL & PRESERVATION AGENT

RePLAY<sup>®</sup> IS A PATENTED SOLUTION THAT EXTENDS THE LIFE OF NEW AND EXISTING ASPHALT SURFACES

Over time, asphalt oxidizes and wears out due to a variety of conditions. In colder temperatures, the freeze/thaw cycles and moisture retention contribute to potholes, cracking, and general deterioration.



We apply a patented formula that is proven to reverse the oxidation process and maintain the skid resistance of your paved surface. Our process adds new SBS polymers to your asphalt mix that strengthens the overall mix. In a matter of minutes, it penetrates 0.75" to 1.25" deep, unlike any other seal or preservation agent on the market.

### THE BENEFITS ARE HUGE

Restores paved asphalt road surfaces

Adds new SBS polymers (15%+)

Reverses oxidation process and strengthens the mix

Achieve a perpetual road when used every 3 - 5 years

Penetrates 0.75" - 1.25" deep in minutes

Maintains skid resistance

Cures in 15 - 30 minutes

No oil tracking

Easy to use - no mixing

Bulk shipments available for easy road maintenance

Reduces potholing and edge rutting

Reduces moisture penetration

No heating - saves on energy costs

No need to restripe

Significant cost savings versus all seals -  
SAVE 300 - 500%

**BioSpan Technologies, Inc.**  
Making Science & Technology Practical™

**BARGEN**  
INCORPORATED

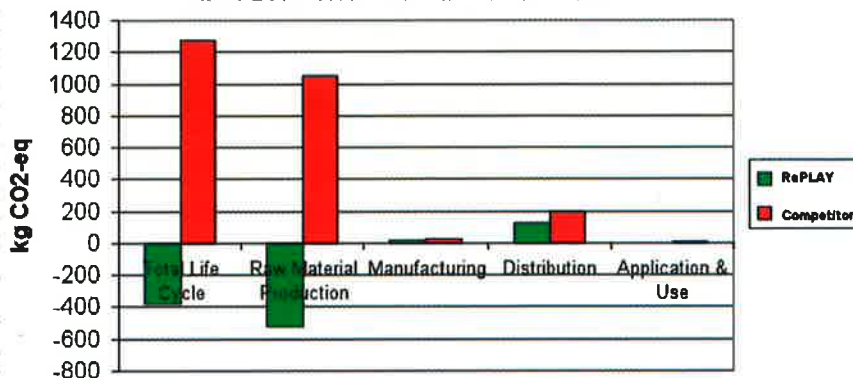
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A Life Cycle Assessment (LCA) BEES Analysis was completed which evaluated BioSpan's RePLAY® Agricultural Oil Seal and Preservation Agent environmental performance from cradle-to-grave. The analysis compared RePLAY®, a bio-based solution, to a competitive petroleum-based product.

The LCA BEES Analysis determined that RePLAY® has almost 40% more favorable total life cycle environmental performance because it does not contribute CO2 to the environment and it reduces the amount of greenhouse gases on a comparative basis. Petroleum-based seals add to global warming and CO2 in the environment, which is why it has a 430% higher global warming potential compared to RePLAY®.

### GLOBAL WARMING POTENTIAL

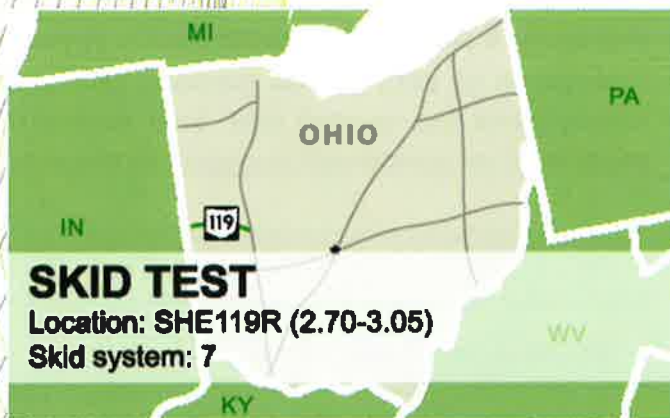


The environmental impact results show that RePLAY™ has a more favorable life cycle profile for:

- global warming potential,
- acidification,
- fossil fuel depletion,
- criteria air pollutants,
- smog formation potential,
- total fuel energy,
- and human toxicity.

**A USDA BioPreferred Product**  
**88% biobased material**

	RUN 1		RUN 2		MEAN	RANGE	MAX	MIN
	LOG	SN	LOG	SN				
Eastbound	2.79	46.5	2.80	47.1	46.8	0.6	47.1	46.5
	2.85	49.5	2.85	48.3	48.9	1.2	49.5	48.3
	2.91	44.9	2.90	44.2	44.5	0.7	44.9	44.2
Westbound	2.82	41.8	2.81	46.3	44.1	4.4	46.3	41.8
	2.87	44.6	2.87	43.1	43.8	1.5	44.6	43.1
	2.94	44.2	2.95	45.0	44.6	0.8	45.0	44.2
Eastbound	19 min. after		25 min. after		MEAN	RANGE	MAX	MIN
	LOG	SN	LOG	SN				
	2.80	46.5	2.80	46.2	46.3	0.3	46.5	46.2
Westbound	2.86	41.1	2.86	44.4	42.7	3.2	44.4	41.1
	2.92	46.4	2.92	44.7	45.5	1.7	46.4	44.2
	69 min. after		75 min. after		MEAN	RANGE	MAX	MIN
LOG	SN	LOG	SN					
2.82	44.7	2.82	43.9	44.3	0.8	44.7	43.9	
2.87	42.4	2.87	43.3	42.9	0.8	43.3	42.4	
2.93	43.6	2.93	44.5	44.0	0.9	44.5	43.6	
Westbound	28 min. after		33 min. after		MEAN	RANGE	MAX	MIN
	LOG	SN	LOG	SN				
	2.81	43.7	2.81	41.6	42.6	2.0	43.7	41.6
2.88	35.7	2.89	37.8	36.7	2.1	37.8	35.7	
2.95	43.0	2.95	43.4	43.2	0.4	43.4	43.0	
Westbound	60 min. after		70 min. after		MEAN	RANGE	MAX	MIN
	LOG	SN	LOG	SN				
	2.82	42.7	2.80	45.1	43.9	2.3	45.1	42.7
2.88	43.9	2.88	40.1	42.0	3.7	43.9	40.1	
2.95	44.5	2.95	44.0	44.2	0.5	44.5	44.0	



The proof is in the numbers. Skid data from Ohio shows that RePLAY® does not negatively impact the road's skid values.

Save time and save money. RePLAY® cures in 15-30 minutes. It's easy to use and is accurately applied with the RePLAY® Spray System.

Eliminate the need for costly seals that don't work and make the surface more slippery. When used every 3-5 years, our process creates a perpetual road that saves you the high cost of repaving. On average, our customers save between 300 and 500% of their total cost versus conventional applications.

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