

# EcoRAP



## All-Natural Paving Solution for Recycled Asphalt

EcoRAP provides for an incredibly hard, dense and drivable surface that takes advantage of RAP (Reclaimed Asphalt Pavement.) EcoRAP is a 100% organic emulsion which enables the replacement of bitumen-based hot mix applications. EcoRAP makes one of the most widely used paving materials on the planet GREEN. The finished surface of an EcoRAP paved road has a higher compressive strength than a comparable asphalt emulsion mix, for a cost-effective solution that is GREEN. EcoRAP is a revolutionary product that binds aggregate fines of recycled asphalt to produce a strong, long-lasting, environmentally friendly driving surface. The combination of these materials makes it possible to produce 100% recycled asphalt with remarkable properties. When added to RAP, EcoRAP creates an incredibly hard, dense, water-resistant surface that avoids the introduction of any toxins or hazards in its manufacture. The finished surface offers enhanced durability and compares favorably with hot-mix asphalt for a cost effective solution that is as green as it is smart.

### Benefits

- Cost Effective
- 100% Natural and Non-Toxic
- Long Lasting
- Easy Application and Immediate Results
- Better Performance than AC Emulsion
- Non-Water Soluble
- Cold Mix/Cold Application
- Odor Free



Leading the way since 1999, Resperion is a global pioneer in the creation and development of innovative technologies and solutions for the road construction industry. Resperion manufactures the only asphalt modifier which so dramatically increases the structural capacity of asphalt that it is possible to reduce the thickness of base and binder courses and lower initial construction costs. Resperion also manufactures environmentally-friendly products for dust control, soil stabilization, and cost-effective paving alternatives.

# EcoRAP – Up to 75% Less Than Traditional Asphalt

## EcoRAP – How it Works

EcoRAP binds recycled aggregate and fines in an environmentally friendly, radically new cold process for a 100% environmentally friendly solution. EcoRAP can either be mixed in with the RAP at a pugmill, it can be added during cold in-place recycling, or directly sprayed onto a windrow of RAP before rolling and compacting. EcoRAP is typically added at a rate of 4% by weight of RAP material. Additional fines may be added for a stronger and longer lasting mix. All procedures stay the same with EcoRAP as they would with any other recycled mixture.

### Green Pavement

EcoRAP is comprised of 100% organic products; no air pollution or fossil fuel burning is required to heat the product during its manufacturing, transportation or placement!

### 100% RAP

Recycled mixes are generally restricted to a maximum content of about 50%, more commonly from 10% to about 25% of "RAP" due to a decrease in pavement performance as the RAP content is increased. With EcoRAP, 100% RAP is utilized, while providing for increased modulus compared to that of traditional asphalt mixtures.

### EcoRAP vs. Traditional Cement Asphalt

The chart below represents cold in-place recycled asphalt mix design using T.O.P. emulsion and reclaimed asphalt paving verses traditional asphalt cement emulsion.

Test	EcoRAP	AC Emulsion
Voids, %	11	7.6
Marshall Stability @ 60°C (n)	9219	5836
Marshall Flow	16.9	18.9
Dry Tensile Strength	1188	783
Wet Tensile Strength	1137	776

## Applications

- Can be used on any unpaved road surface
- Construction, industrial, service, access and rural roads
- Ports and Airports, both onsite and adjacent areas
- Military installations
- Parking & storage lots
- Gravel pits
- Mine sites
- Drill Sites
- Landfill

## Industries Served

- Agriculture/Wineries
- Airports
- Automobile Shredders
- Coal Sales and Brokers
- Construction
- Container Storage
- Equestrian
- Feed & Grain
- Iron & Steel
- Landfills
- Marine/Ports/Piers
- Military
- Municipal/Government agencies
- Quarries & Mines
- Railroads/Mass Transit
- Recreational
- Trucklines/Terminals
- Utilities/Power Plants



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