Bituminous Pavement Recycling using **REJUPAVE**[®] Technology



REJUPAVE - One Product, Many Benefits

Presentation of New Researchers and Innovations

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WHAT IS REJUPAVE® TECHNOLOGY?

- * REJUPAVE® is a patented technology for recycling of bituminous pavement by utilizing high quantities of RAP. Value chain consisting the investigation, job mix design, rejuvenating and recycling of pavement
- REJUPAVE[®] technology uses a Liquid biobased asphalt modifier cum rejuvenating agent
- Restores the viscoelastic characteristics of oxidized binder in the RAP, also improves the rheological properties by maintaining the Asphaltene to Maltene proportion in the bitumen





Why Pavement Recycling is required?



To conserve the diminishing road construction material
To maintain road levels within permissible boundaries
To reduce the cost of maintenance and rehabilitation





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Reclamation of Old Pavement

Asphalt Mix removed from the Roadway Typically by Milling
Milled material is called Reclaimed Asphalt Pavement (RAP)
Contains Asphalt Binder and Aggregates
Reutilization has Economical and Environmental Benefits





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Recycling Procedure using REJUPAVE® Technology





Benefits of REJUPAVE® Recycling Technology



- First indigenously developed technology for Bituminous Pavement Recycling
- Proven, economic technology for High RAP mixes - rapidly penetrates and rejuvenates; reduces virgin asphalt requirements
- 100% environment friendly and sustainable



- Eliminates the problem of increasing road levels due to overlay of HMA
- All natural: Bio-oil based, non-hazardous product; No petrochemicals used
- Reduces the energy usage
- Compatible with all asphalts



REJUPAVE TECHNOLOGY FILM





"Sustainability is not just about adopting the latest energy-efficient technologies or turning to renewable sources of power. Sustainability is the responsibility of every individual every day. It is about changing our behaviour and mindset to reduce power and water consumption, thereby helping to control emissions and pollution levels."- Joe Kaeser

"Because we don't think about future generations, they will never forget us." – Henrik Tikkanen



