

Leading the Way



ARMASEAL

Asphalt pavement surface preservation

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who we are

- C.L. Asphalt Solutions is a Cypriot based business entity
- C.L. Asphalt Solutions has an agreement with Jobling Purser (UK based company – manufacturer of ARMASEAL) to promote , market and sell ARMASEAL in Europe, Mediterranean, Middle East, Asia and Africa
- ARMASEAL is currently marketed and applied in a number of countries across the globe

What is Armaseal?



- Fast breaking cationic bitumen emulsion
- Rich in polymers and other ingredients
- Specially formulated to “lock in” chippings on asphalt road surfaces
- Less than 40 PEN bitumen which makes it non sticky in high temperatures
- Non brittle in low temperatures
- CE certified

What is Armaseal?



- Armaseal process was developed in England
- Suitable for all types of asphalt pavement surfaces (hot mix, SMA, chipseal, ottaseal, micro surface, slurryseal)
- May be repeated every 4 to 6 years subject to sufficient retained texture and SRV
- Totally sustainable process
- Extremely cost effective

Why spray armaseal on asphalt pavement surface?



- Financially cheaper than having to do milling and re-surfacing of the wearing course
- Seals in “chippings”
- Prevent aggregate loss
- Reduce binder ageing
- Protects asphalt road surface against water ingress
- Extremely resistant to oxidization
- Has minimal effect on Skid Resistance Value (SRV) or texture depth
- Very quick to apply
- Not affected by salt on roads
- Environmentally friendly

Benefits of Armaseal on asphalt pavement surface



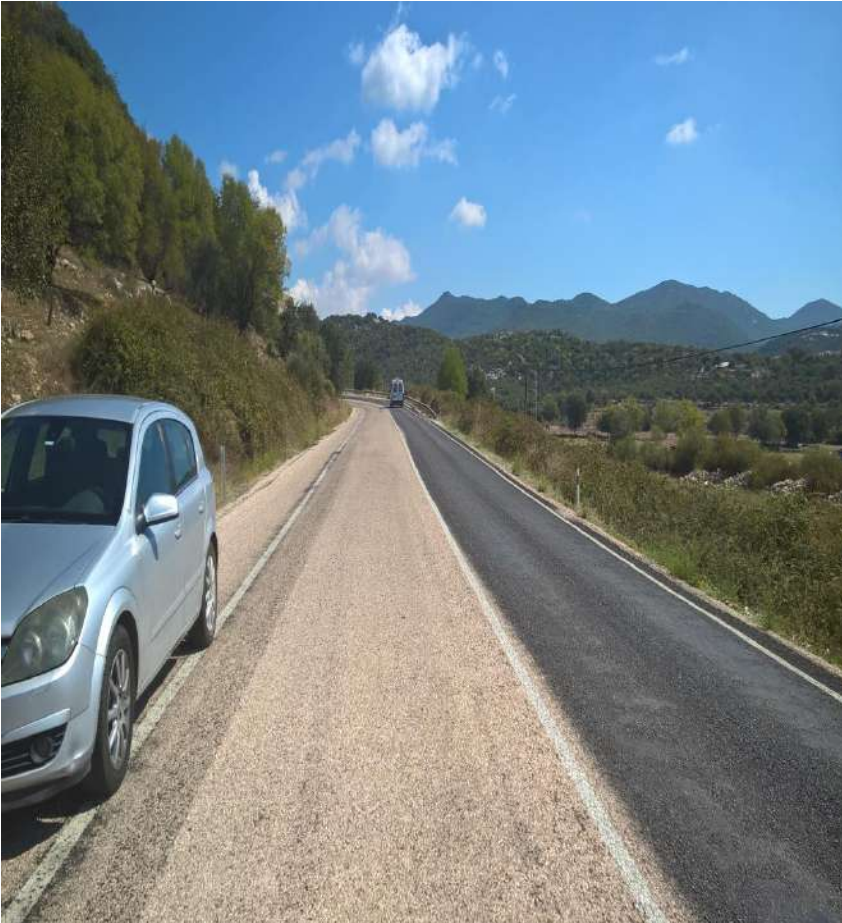
- low cost and sustainable
- locks and seals loose chippings
- gives “black” appearance to the surface
- milling and re-surface of the wearing course could be avoided or postponed
- creates no waste material
- resists water ingress
- significantly extends functional life of all bituminous bound surfaces
- quick and easy to apply
- fast cure process minimizes site occupation
- minimizes need for aggregate extraction
- no adverse effects to Highways safety measures

Armaseal Strong Points



- **Excellent adhesion.** This means that it sticks very well to the aggregates
- **it has a low PENETRATION (less than 40 PEN),** The advantage of this is that it provides a high softening point and tack free surface
- **it has a high softening point – i.e. it is more than 75C celcius.** This means that it will not melt or go soft in the summer-it will not be sticky on car tyres
- **Good storage stability** This means that you can store it and use it up to 8 months from date manufactured
- **Cures quickly** This means that it dries up quickly and can be trafficked in 30 – 90 minutes, depending on weather conditions

When and where Armaseal can be sprayed on asphalt pavement surfaces :



- on any type of asphalt pavement surface , no matter what age, subject to satisfactory retained texture and SRV
- Immediately after the asphalt pavement wearing course is done or at any stage afterwards
- on motorways and highways
- on rural roads and unclassified roads
- on A & B roads
- on well trafficked roads
- on car parks, footways, cycle roads
- on platforms, airports, docks and ports

The current situation of hot mix asphalt surface road



- Roads in their worst ever condition
- Cost of construction materials going up
- Maintenance budgets going down
- Authorities struggling to manage
- Government demanding innovation
- Environmental pressure growing

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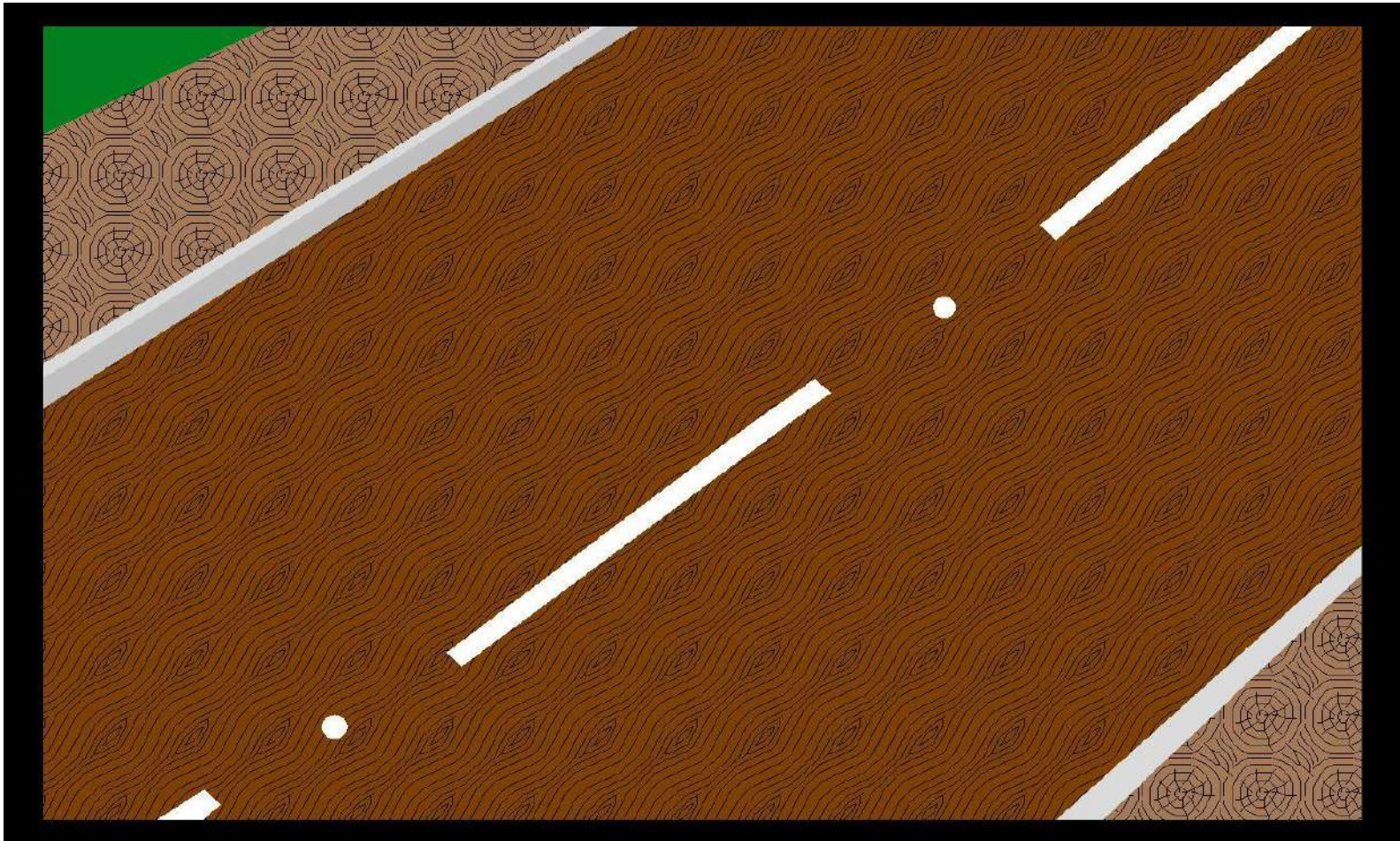
Chippings start coming off from chip seal road surface and traditionally there is the need for another layer



Cracks start appearing on hot mix asphalt road surface and traditionally no immediate action is taken to preserve the surface



We all understand that wood must be preserved
Why shouldn't asphalt road surface be preserved?



Armaseal sprayed over SMA surface on a motorway



Armaseal sprayed over hot mix asphalt motorway



Armaseal sprayed over chipseal road surface



Armaseal sprayed over chip seal road



Armaseal sprayed over hot mix asphalt motorway



Armaseal comparison on a chipseal road surface

Before application



12 months after application



Armaseal comparison on hot mix asphalt



Armaseal comparison on hot mix asphalt



Armaseal comparison on micro surface



Armaseal sprayed over chip seal road



Armaseal sprayed on secondary road



Thank you

