



P.O.Box 422
Witkoppen, 2068
Premi Cell No.: (078) 803-0187
Facsimile No.: (086) 574-2336
Vat Registration No.: 4550230124

HER Rejuvenator

A rejuvenator is not a product that sits on the top of an existing oxidised surface and does little more than offer a sacrificial layer to the oxidising effects.

A true rejuvenator chemically revitalises the lighter molecular compounds and reconstructs the balance in the bitumen surface to become flexible again.

Failing to revitalize the flexibility of the oxidised surface will allow failure mechanisms to continue under the surface sealant and will only act as a paint and brittle failure process will still propagate.

HER rejuvenator is a hydrocarbon enriched bitumen based liquid which contains a wide spectrum of rejuvenating agents and oxidation resistants' that when applied at ambient temperature to a bituminous surface will :

- Penetrate and seal micro cracks in the old oxidised surface thus improving permeability.
- Enhance the existing bitumen with a blend of naturally occurring pitch bitumens, maltene rich additive, oils and resins. The hydrocarbon enriched bitumen, also retards further oxidation and fatigue by approximately 5 times greater than normal refinery grade bitumen.
- Increases the skid resistance immediately after application
- Shelf life in excess of 12 Months
- Timely application will prevent aggregate loss
- Extend the replacement life of Roads, Runways and Parking areas considerably

Application :

HER rejuvenator is cold applied product, applied at surface temperatures ranging from 5°C. Under the correct conditions it can be applied at night.

The application rate of HER rejuvenator will depend on the texture of the existing surfaces to be treated :

- Smooth surfaces lower application rate e.g.. Old slurry surfaces
- Rough surfaces higher application rate e.g.. Stone seals and asphalt surfacing

Application rates vary between 0,4 and 0,6 litres per m².

If more than 0,6 litres per m² is required , apply in two applications allowing 48 hours between applications.

Before application, inspect existing surfaces thoroughly :

- Area where oil has spilt should be cleaned properly.
- Potholes and wide cracks must identified and repaired after rejuvenation.
- Areas of different texture should be assessed for variation of application.
- Care must be taken when applying in areas where there is existing concrete structures and kerbs.

HER rejuvenator is supplied in bulk for spraying in large areas where higher volumes are required. HER rejuvenator is also supplied in drums for labour intensive applications i.e.. paint rollers and hand sprayers at approximately the same cost.

After application, HER rejuvenator requires 2 - 3 hours to dry sufficiently for use depending on weather conditions.

During this time, all vehicles and pedestrians must be kept off the area.

Road markings should be applied as per normal bitumen surfaces.



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Performance Specification

Test Description	Method	Result
Drying time over temperature	Touch dry method	(in Minutes)
10°C		30
23°C		25
30°C		15
Skid resistance	BPT - TMH6 ST2	(BPT number)
untreated	Dry	90
	Wet	95
treated	Dry	125
	Wet	95
Effects of solvents	Visual assessment	After 1 day
Petrol		Surface softening, minor degradation
Diesel		Surface softening, no degradation
Hydraulic fluid		no effect
Antifreeze		no effect
Engine oil		slightly softened
Water Permeability	Marvil test - COLTO	ℓ/h
Untreated		2,2
Treated		0,45
Chloride penetration		no specific resistance, penetration as water above

Tests were carried out to determine :

- Drying time over the range of installation temperatures
- Skid resistance value
- Effects of solvents
- Water permeability
- De-icing salt penetration

The results of performance tests are given in the table above and classification of skid resistance is as follows :

TRL Rubber (Car tyres)	Classification
< 19	Dangerous
20 - 39	Marginal
40 - 74	Satisfactory
> 75	Excellent

The manufacturing process in the RSA was examined including the methods adopted for quality control and details were obtained of the quality and composition of the materials used.

An examination was made of data supplied concerning application of the product in the RSA.