

## USES – SPECIFICATIONS - INFORMATIONS

### Greenseal AR

Ref.GW : AR3037

### USES

#### ADDITIVE FOR BITUMEN

#### ADHESIVE AND COHESIVE PROPERTIES

REJUVENANT AND REGENERATION OF UP TO >60 % OF RECLAIMED ASPHALT IN ASPHALT MIX HEATED AT > 125°C

### SPECIFICATIONS

Properties	Methods	Units	Typical values
Viscosity at 25°C	EN 13072-2	m.Pa.s	60
Specific gravity bei 15°C	DIN 51757	g/cm <sup>3</sup>	0,9275
Flashpoint	EN-ISO 22719	°C	180
Saponification index	ASTM D803-15	mg KOH/g	90
Acid value	ASTM D465	mg KOH/g	60
Iodine index	NF EN ISO 3961	gl <sub>2</sub> /100g	110
Fatty acids and their esters		%	> 99

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### INFORMATIONEN

GREENSEAL AR , earlier Greenseal A and Greenseal R, elaborated by GREENWOLRD s.à.r.l. and traded since september 2007 by MECAROUTEs.a.

Mixed with bitumen it is used to

- increase the adhesivity of bitumen against the mineral aggregates
- produce recycled asphaltmix at  $\geq 125^{\circ}\text{C}$  with high amount ( > 60%) of reclaimed asphalt.

GREENSEAL AR is composed by heavy distillates of fatty acids and their esters .Fixed on bitumen molecules ,they decrease their polarity and modify positively their structure increasing the adhesion against the mineral aggregates .

GREENSEAL AR rejuvenates on the one side the rheology of the residual binder of the reclaimed asphalt and on the other side regenerates by chemical fixing the organic acids -R-COOH on the molecules of the bitumen.

GREENSEAL AR is free of dangerous, poisonous and volatile compounds which safeguard the road workers against released harmful compounds, vapors and PAC.

GREENSEAL AR is manufactured by following the ISO 9001 norm and is ISO 14001 certified by the producer. All the compounds of these preparation are « REACH » registered .

*PACKAGE* : lost IBC = 900 kg and bulk min.20 t.

*PRODUCER* : **s.à.r.l. GREENWORLD** à *HEIDERSCHEIDERGRUND*((Gd.D.Lux)  
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*EXCLUSIVE TRADER* : **s.à. MECAROUTE** à *NANTERRE (France)*  
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