

Greenseal E®

Ref.catalogue E-02

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USE

ADDITIVE TO IMPROVE THE QUALITY AND CHEMICAL PROPERTIES OF BITUMEN FROM PARAFFINIC SOURCES
INCREASING « ACID VALUE AND ADDING SAPONIFICATION- and IODINE VALUES » IN BITUMEN
PRO- & PREEMULSIVE FUNCTION

APPLY

EMULSIONS
NON VOLATILE FLUX

SPECIFICATIONS

Properties	Methods	Units	Typical values
viscosity at 25°C	EN 13072-2	m.Pa.s	55
specific gravity at 15°C	DIN 51757	g/cm ³	0,94
flashpoint	EN-ISO 2719	°F / C	374/190
saponification index (IS)	ASTM D803-15	mg KOH/g	172
acid value (IA)	ASTM D465	mg KOH/g	120
iodine value (II)	NF EN ISO 3961	g/100g	176
*IR _e		ppm	2052000
Fatty acids and their Esters		%	> 99

DOSE

GREENSEAL E , insoluble in water, is directly added to bitumen and acts as PRO- and PREEMULSIVE by the preparation of emulsion.

Dose : between 0,1-0,35 % in bitumen dependable from the original acid value in the bitumen and the use of other emulsives

GREENSEAL E can substitute partly or totally emulsives.

REACTIVITY

This typical preparation, liquid at 40°F/5°C , composed by middle and heavy distilled fatty acids and their esters improves the chemical and mechanical properties of the paraffinic bitumen and appointed by the concentration of measurable active radicals mentioned in the table herunder :

IA	IS	II	*IRe/ ppm
120 mgKOH/g	172 mgKOH/g	176 gI ₂ /100g	2052000
ASTM D465	ASTM D803-15	NF EN ISO 3961	Σ IA+IS+II

IA = carboxylic acids : « R- COOH » ,
II = double carbonbindings : « R>C=C< R-»
IS = esterified fatty acids : : « R-COOR » ,

forming all together a ***REACTIVITY POWER (*IRe) = 2052000** ppm.

The organic acids takes care that paraffinic bitumen have equal and better properties than the naphtenic one and the additional saponification and iodine values improve the emulsion's quality and performances of the bitumen on adhesive and cohesive level.

INFORMATION

TOXICOLOGY : GREENSEAL E is free of dangerous, toxic and volatile compounds which safeguards the occupational workers against exposure of poisonous and harmful vapors and PAC.

ENVIRONMENT : the use of GREENSEAL E in emulsions is a safeguard for dangerous compounds neither by the confection nor the use of emulsion.

CERTIFIATION : GREENSEAL E is produced following ISO 9001 norm and is ISO 14001 certified by the producer and all raw materials are « REACH » registrated .

HISTORY : GREENSEAL E ® elaborated by GREENWORLD S.a.r.l. Is exclusively traded by s.à. MECAROUTE since juli 2016.

PACKAGE : IBC = 900 kg and BULK min.20 t.

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