SIN RUBTECH®

TECHNICAL DATA SHEET

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SIN RUBTECH® POLYMER BOUND PREDISPERSED REGEN AGENT S

Product Description

Composition:	A proprietary and patent applied for combination of highly effective room temperature reclaiming agent for cured elastomeric scraps.
Appearance:	Green - Brown Granules.
Density:	Approx. 1.25 g/cm^3.
Odour:	Faint.
Solubility:	Moderately soluble in most hydrocarbon.
Storage Stability:	Over 2 years under normal storage conditions. REGEN AGENT S naturally changes colour to brown on prolonged storage but this does not in any way affect its activity.
Packing:	25 kg nett in a carton box.

Recommendations and Applications

REGEN AGENT S is a proprietary reclaiming agent which can regenerate all cured elastomeric scraps (sulphur, peroxide or resin cured) into a plastic REGEN material which can be easily processed, compounded and vulcanised with or without the addition of either natural or synthetic raw rubbers.

The REGEN AGENT works by a mechanico-chemical process wherein both sulphur - sulphur or carbon-carbon crosslinks and inadvertedly also some main chains are severed and these severed ends stabilised. Unlike the DE-LINK PROCESS, the REGEN PROCESS regenerated REGEN materials need to be further compounded to re-vulcanise.

REGEN AGENT S is tailored-made to regenerate both coloured and black vulcanised scraps. A typical recommended 2-step procedure is to use a high-shear mill or better still a refiner mill with an apron conveyor viz :-

Refiner Mill XKJ480 (Zero Nip)

	PHR	*Batch Wt.(kg)*	*Time of Milling (Min)*
Scraps	100.0	18.000	2
REGEN AGENT	1.5	0.270	6
Raw NR	10.0	1.800	2
1st Step	111.5	20.070	10

Mature at least 8 hours.

	PHR	*Batch Wt.(kg)*	*Time of milling (Min)*
1st Step REGEN	111.5	20.070	5
Raw NR	10.0	1.800	3
2nd Step	121.5	21.870	8

The use of raw NR or masterbatch compound is optional. We have found that raw NR or masterbatch compound assists the formation of a crepe/sheet as well as to lower the Mooney viscosity of the REGEN. If a higher Mooney viscosity of the REGEN can be tolerated, a 1-step procedure can also be adopted.. Use of plasticising oils can be used to lower Mooney viscosity, but it should be either premixed in the raw NR or masterbatch, or added only at the end part of STEP-2.

Typical characteristics and applications of REGEN/GR of examination glove rejects are separately given in our Technical Data Sheets. It is obvious that the properties of each REGEN material depends on the scraps used and the machineries / process adopted. Users of REGEN AGENT S can contact us for any technical assistance needed.

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