

**SIN RUBTECH® POLYMER BOUND
PREDISPERSED ETU – 80G****Product Description**

Composition:	A proprietary predispersed 80% N, N' - ethylene thiourea in 20% elastomeric / processing aids binder specially formulated for use in EPDM, NR, SBR, BR formulations
Appearance:	Beige Granules.
Density:	Approx. 1.14 g/cm ³ .
ML 1+4 @ 50°C	< 70
Moisture Content:	< 1.0 %
Melting Point: (of active ETU)	> 195 oC
Storage Stability:	At least 2 years under normal storage conditions.
Packing:	18 kg nett in sealed PE bag in a carton box.

Recommendations and Applications

Polymer bound predispersed ETU – 80G is recommended where a more eco-friendly material, high productivity and better dispersion is required. This often translates to lower bottom-line costing.

The active ingredient ETU is used in the vulcanisation of polychloroprene rubber (CR), epichlorohydrines and EPDM. ETU is also an activator and secondary accelerator for all other diene rubbers.

ETU is commonly used in CR to increase the rate of cure and modulus and is suitable for all types of cures such as press, open steam, transfer and injection moulded and continuous cures.

Typical example is:

	<u>PHR</u>
CR	100
MgO	4
ZnO – 75G	5.5
ETU – 80G	0.5 - 2.0
S – 80G	0 - 1.5
If retarder is needed	
MBTS – 80G	0.5 - 1.0
TMTD – 80G	0.5 - 1.0

With homopolymer epichlorohydrin rubber, ETU – 80G acts as a crosslinking agent. An illustrative example is:

Homopolymer (CO)*	100.0
Processing Aids (Struktol WA48)	1.0
Red Lead Oxide (Pb ₃ O ₄)	5.0
Filler	40.0
ETU – 80G	1.3
Antidegradant	1.0

1. Example: Zeon Hydrin H

ETU – 80G is also used as an activator or secondary accelerator for diene rubbers e.g. NR or SBR in semi EV and EV cure systems. Example:

TMTD – 80G	2.5
S – 80G	0.15
ETU – 80G	0.5 - 1.5

ETU – 80G is finding applications in EPDM compounding as an activator or secondary accelerator especially where CaO is used as a desiccant and this has a retarding effect. An example illustrates:

EPDM	100
MBT – 80G	0.5 - 1.5
ZDBC – 70G	0.5 - 2.5
TMTD – 80G	0.5 - 1.5
ETU – 80G	0.5 - 1.5

ETU – 80G should not be used in the manufacture of food contacting rubber products.

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