

**SIN RUBTECH® POLYMER BOUND
PREDISPERSED MgCO₃ – 50G****Product Description**

Composition:	A proprietary predispersed 50% Magnesium Carbonate in a 50% elastomeric / processing aids binder specially formulated for use in EPDM, NR, SBR, BR formulations
Appearance:	Whitish Granules.
Density:	Approx. 1.24 g/cm ³ .
ML 1+4 @ 50°C	< 70
Moisture Content:	< 1.0 %
Melting Point: (of active MgCO ₃)	> 350 °C
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 MgCO₃ – 50G is recommended when a more eco friendly material, higher productivity and better dispersions are required. This often translates to lower bottom-line costing.

The active ingredient, fine particle size magnesium carbonate is considered a semi-reinforcing filler giving high tensile strength, high resilience, tear and abrasion resistance. It also stiffens uncured extension profiles and reduces collapse in open hot air or steam curing. MgCO₃ is also used in translucent compounds. Over the years precipitated silicas have largely replaced MgCO₃ and in products requiring low moisture adsorption and good set properties, silane treated clays are used.

Nonetheless, MgCO₃ has still niche usages such as in footwear's microcellular sheetings, midsoles and blown outsoles. In such formulations fine particle size fillers like CaCO₃, MgCO₃ and precipitated silicas are used depending on the physical and cosmetic requirements. For example use of 10 – 30 PHR of precipitated CaCO₃ can give very fine almost invincible cells but strength and tear properties are compromised. Some leading footwear manufacturers prefer uniform but visible cells with good tear/ stitching resistance. MgCO₃ prepared from seawater extraction and finely precipitated is ideal for this application. From cell nucleation theories (See Musing With Sin Item 59) it is imperative that MgCO₃ used must be finely dispersed and distributed. Hence our polymer bound predispersed MgCO₃ – 50G is ideal for such applications.

Dosage

10 – 40 PHR depending on microcellular formulation used.
For other applications – as required.

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