

## TECHNICAL DATA SHEET

### Road Marking Paint Resin - Maleic Modified Rosin Esters

#### 1. Chemical and physical properties

This product is special resin for road marking paint (hot melt only). It is made in small pellet through esterification by gum rosin, unsaturated binary acid and multi-alcohol, during the reaction, anti-oxidant and optical stabilizers are added. It is soluble in aromatic hydrocarbons, esters and ketones.

Due to the good stability in storage, prominent heat resistance, low viscosity when molten and odorless nature, the resin is especially suitable for road marking paints as tackifier. Meantime, the paints added with the resin well resist compressing and crafting, resist contamination, dry quick and flow easy.

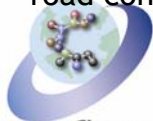
#### 2. Technical Specifications

Product Tested	MRE001	MRE002
Appearance	Pale yellow semi-transparent granule	Pale yellow semi-transparent granule
Softening Point (ring & ball) □	105-110	100-105
Acid Value (mg KOH/g) ≤	16	16
Color Gardner ≤	4.0	4.0

#### 3. Suggest Recipe

Material	weight percent	unit (kg)
Rosin Ester	17%	170
CaCO <sub>3</sub> (60-120 mesh)	20%	200
SiO <sub>2</sub> (300-350 mesh)	36.6%	366
DOP	2%	20
EVA	0.8%	8
Talcum Powder	4%	40
Hydro-castor Oil	1.2%	12
White Titanium	3.4%	34
Glass Bead	15%	150

Above recipe is just a reference, customers should adjust according to the weather and road conditions



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4. Applications of the paint( Hot Melt Paint ):

Put the materials compound (excluding Glass Bead) in a kettle(pot) step by step gradually, keeping agitation and heating (180<sup>o</sup>), then shift the liquefied compound(paint) into an applicator, stirring while marking on dry and clean road surface.(before marking, undercoating demanded).

5. Packaging:

25 kg/paper bag with plastic film inside, avoid moisture, fire and high temperature.

6. Product Codes:

MRE001 and MRE002

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