

Technical Leaflet

WorléeSin GM 203

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W'Sin GM 203 is a pale maleic resin with good light resistance. It is used as a universal resin in oil and alkyd synthetic paints, NC-lacquers and inks.

Technical Data:

Melting point, capillary method	100 - 125 °C
Acid value, DIN EN ISO 3682	20 - 25
Colour, Gardner, 50% in white spirit 145 - 195, DIN ISO 4630	max. 8
Viscosity, 20 °C, 50% in white spirit 145 - 195, DIN 53211-4	25 - 50 s
Delivery form	100% in pellets and/or flakes

Compatibility:

W'Sin GM 203 is compatible with non drying and drying short, medium and long oil alkyds. It is also compatible with nitrocellulose and amino resins. Due to the large number of different resins, we recommend corresponding preliminary trials.

Solubility:

W'Sin GM 203 is soluble in aliphatic hydrocarbons, esters, ketones, higher alcohols and glycol ether esters. In aromatic hydrocarbons W'Sin GM 203 is partially soluble. It is insoluble in lower alcohols.

Application and Properties:

Oil and Alkyd Resins

W'Sin GM 203 is a universal maleic resin used for applications in a wide range of paint products.

Although the paint films are clear when W'Sin GM 203 is combined with drying oils, cooking is recommended to improve weather resistance. To this aim W'Sin GM 203 is introduced and dissolved into the approx. 180 °C hot oil. Depending on the type of oil the temperature can be increased up to 240 °C and kept at this level until the solvent solution of the cooking remains clear after cooling down.

W'Sin GM 203 improves through-drying, gloss, hardness and film build of alkyd enamels and it adds gloss and structure to hammer finishes. For better use W'Sin GM 203 is usually dissolved in a suitable solvent and then mixed to the main binder.

NC-Lacquers

W'Sin GM 203 has good compatibility with nitrocellulose and is therefore used in nitrocellulose lacquers to improve gloss and film build of pigmented and clear varnishes without reducing the light stability. Due to the low acid value, W'Sin GM 203 is also best suited for sanding sealers without fear of reaction with basic zinc soaps. W'Sin GM 203 is especially used for furniture NC-lacquers when combined with nitrocellulose and non-drying alkyd resins, such as W'Kyd C 640 and C 641.