

Technical Leaflet

WorléeAdd 1200

Art.-No. 114503-00824

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W'Add 1200 is a synthetic wax to provide excellent stability against buff resistance, slip properties and improved the water and mar resistance. W'Add 1200 can be used in solvent based, aqueous and also UV-curing systems and powder coatings.

The usual addition is 0.3 - 1.0%, calculated on total formulation.

At concentrations above 1.5% it may also function as a flattening agent, producing mat finishes when desired.

Technical Data:

Appearance	fine white powder
Melting point	100 - 108 °C
Acid value	max. 2
Density	0.90 - 0.96 g/cm³

Application and Properties:

W'Add 1200 may be incorporated into the following systems:

Epoxy, polyester, hybrid and acrylic powder coatings, nitro-cellulose lacquers, 2-component polyurethanes, epoxy esters, epoxy ethers and a variety of ink resins .

In conventional coatings, a grinding step is required to reduce the particle size.

Dispersion of the wax into solvent-based coatings may be accomplished on a three roll or ball mill.

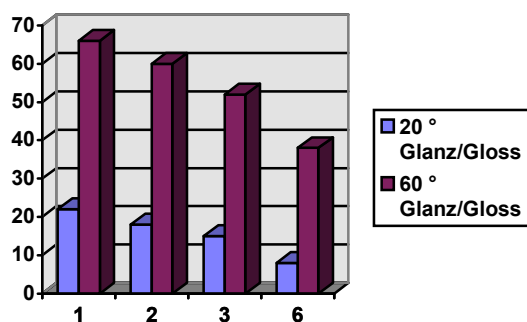
For water based systems, dispersion is best achieved by ball or pebble milling with a small addition of a surfactant.

W'Add 1200 should be added into powder coating compositions during the "dry-blending" operation, then homogenized in a heated extruder.

Gloss Modification:

W'Add 1200 can also be used as flattening agent in powder coating systems.

Gloss level versus concentration of wax:



In a typical polyester/epoxy hybrid starting formulation:

Epoxy Resin 7013	68
Polyester Resin (Rucote 560)	156
Resiflow P-67 (Worlée)	4
Calcium Carbonate	40
Barium Sulfate	72
Titanium Dioxide	56
W'Add 1200	*

* W'Add 1200 was added at 4, 8, 12 and 24 parts, which are roughly equivalent to 1,2,3 and 6 % respectively in correspondence to the above chart.

In a typical polyester/TGIC starting formulation:

Polyester Resin 7307.3 (Ems)	208
TGIC PT-810 (Ciba)	15.7
Calcium Carbonate	40
Barium Sulfate	72
Titanium Dioxide	56
Resiflow P-67 (Worlée)	4
WorléeAdd 1200	**

** W'Add 1200 was added at 4, 12 and 24 parts, which are roughly equivalent to 1, 3 and 6% respectively. The 60° gloss for this formulation is indicated below:

Wax Concentration	1%	3%	6%
60° gloss	81.3%	56.3%	46.3%