

## Technical Leaflet

# WorléeAdd 1200

Art.-No. 114503-00824

Revision: 23.04.2018

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 powder coatings, UV-curing systems and also in solvent based, aqueous systems.

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	104 - 112 °C
Density	0.90 - 0.96 g/cm <sup>3</sup>

### 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.

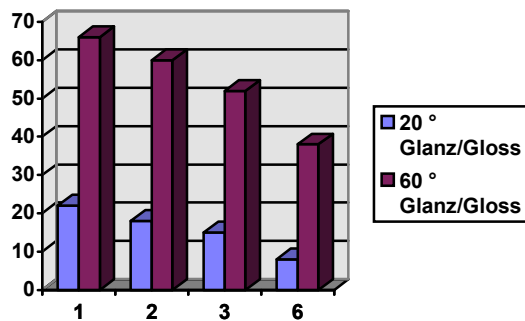
WorléeAdd 1200

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**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	68
Polyester Resin	156
Resiflow PV 88	4
Benzoin	2
Calcium Carbonate	40
Barium Sulfate	70
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	208
TGIC	15.7
Resiflow PV 88	4
Benzoin	2
Calcium Carbonate	40
Barium Sulfate	70
Titanium Dioxide	56
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%