



## TECHNICAL DATA SHEET

### Roskydal 850 W

A water-reducible unsaturated polyester resin [66-4850]

#### General description:

Roskydal 850 W is a water-reducible, wax-free, solvent-free, monomer-free unsaturated polyester resin that can be cured by conventional or UV methods. The resultant films are hard with brilliant gloss or matt and resistant to scratching, water, alcohols, solvents and household cleaning agents. Roskydal 850 W is easily emulsifiable in a dissolver. 70 parts of resin are placed in the dissolver and 30 parts of tap water are slowly stirred in and emulsified at 20 m/s rim speed for 2 minutes. The resultant base emulsion (oil in water) is not stable. The dissolver is slowed and the remaining aqueous components are added (any non-aqueous components are pre-dispersed in Roskydal 850 W prior to emulsification). For conventional curing systems, the use of water-soluble peroxides and cobalt salts are required. UV-curing requires the use of liquid photoinitiators, which are added to the resin prior to emulsification

#### Technical features:

1. Solvent/ wax/ monomer-free
2. Used for both conventional- and UV-cure systems
3. Hard, scratch and chemical resistant

#### Suggested uses:

1. Clear and pigmented, gloss and matt aqueous coatings for wood

**Delivery form:** 100% n.v.

#### Typical properties:

Property	Value	Units	Method *
Viscosity, (23°C):	12000 ± 3000	mPa.s	DIN EN ISO 3219/A.3
Acid value (as such)	17 ± 5	mg KOH/g	DIN EN ISO 2114
Iodine color value	3 maximum		DIN EN 1557

\* SDM: Nuplex Resins methods of determination (available on request)

Density, at 20°C: 9.33 lbs./gal  
Flash point: >100°C  
Non-volatile, by vol.: 100%  
Water content: <0.2%

*On the DSL Inventory*

**Stability:** stable for 6 months when stored in originally sealed containers at temperatures below 73°F.

**Updated:** April, 2014

All information, recommendations and suggestions, concerning the product and its use, are believed to be reliable. However, Nuplex Resins gives no assurance as to the accuracy, completeness, or adequacy for a particular purpose. It is the user's responsibility to determine the suitability for its own use of the products. No guarantee (whether expressed or implied) is made by Nuplex Resins as to the results to be obtained from using the described products, nor shall Nuplex Resins be liable for any use by others of the described products. Users are responsible for ensuring compliance with local legislation and obtaining the necessary certifications and authorizations. All orders are subject to the general conditions of sale of Nuplex Resins, which are printed overleaf and/or can be downloaded from [www.nuplexresins.com](http://www.nuplexresins.com). All of user's general terms and conditions are herewith deemed rejected. Nuplex Resins owns all copyrights and other intellectual property rights in the contents of this document. Reproduction or redistribution in any form is not allowed.