

SOLURYL S-121W

Low Acid number Solid Resin for Water-based Products

Features

- Good Film Forming and Adhesion
- Water and Alkali resistance
- Dissolution in any solvent

Typical Properties

Properties	Specification
Appearance	Clear pellet
Molecular Weight	12,000
Non Volatiles, wt%	> 98.0
Acid Number, mg KOH/g	85
Tg, °C	95
Density, g/ml	1.13

Compatibility of Soluryl 121W

Soluryl 121W is compatible with most common emulsions. Dilution with glycols, glycol ethers, alcohols, ketones, acetates, benzene derivatives and any organic solvent is excellent.

Application

- Polymer surfactant for emulsion for wood coating
- Coating materials for water-based OPV

Safety Information

Soluryl 121W is not formulated to contain any hazardous or regulated materials such as lead, cadmium, mercury and chromium compounds. And raw materials for Soluryl 121W and our manufacturing process do not include any hazardous or regulated materials.

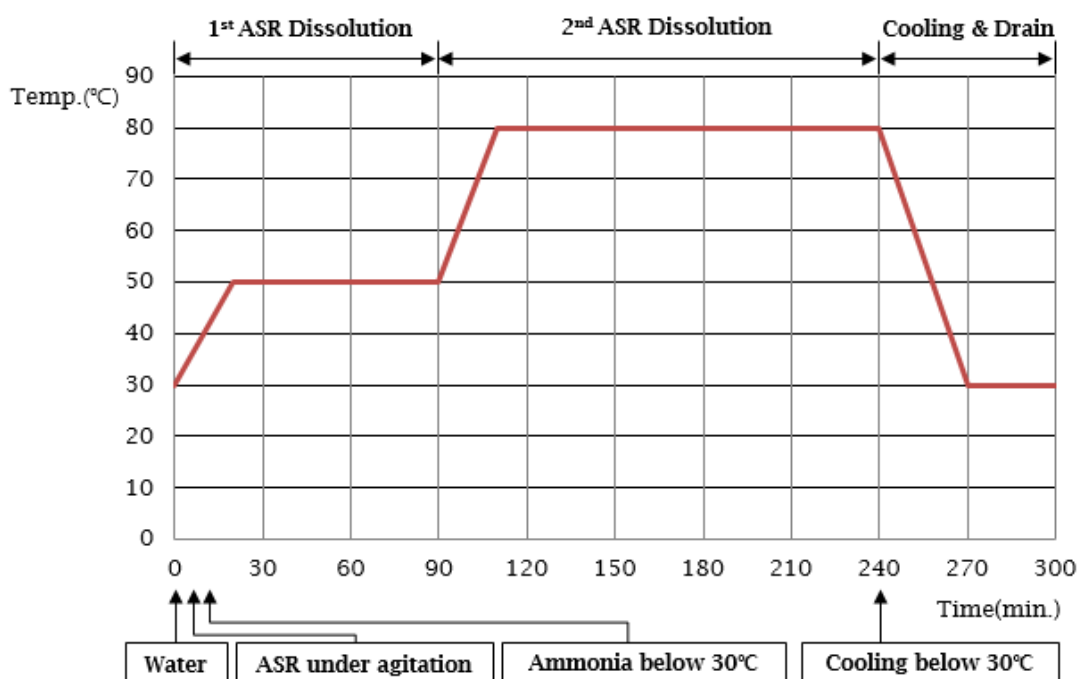
Solution Preparation and Properties

The following formulations are offered as starting points of making resin solutions. The resin should be cut under agitation by high-speed mixers. Although Soluryl 121W will be dissolved at room temperature, the solution process can be greatly accelerated by use of warm water up to 80°C.

Soluryl 121W	30.0
D. Water	67.6
Ammonia Water (28%)	2.4
pH	8.0
Viscosity, cps (25°C, Brookfield)	300

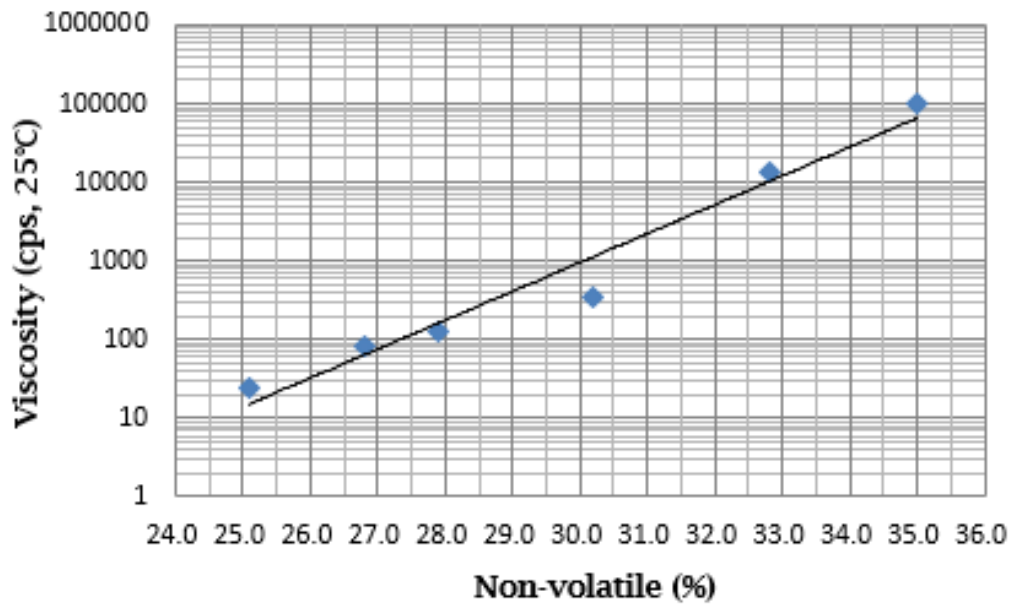
Solution Process and Conditions

Soluryl 121W is low acid number and high molecular weight resin. Ammonia water should be slowly fed below 50°C under agitation and keep it for 1hr. After then, the reaction temperature increase to 80°C and keep it for 2hrs.

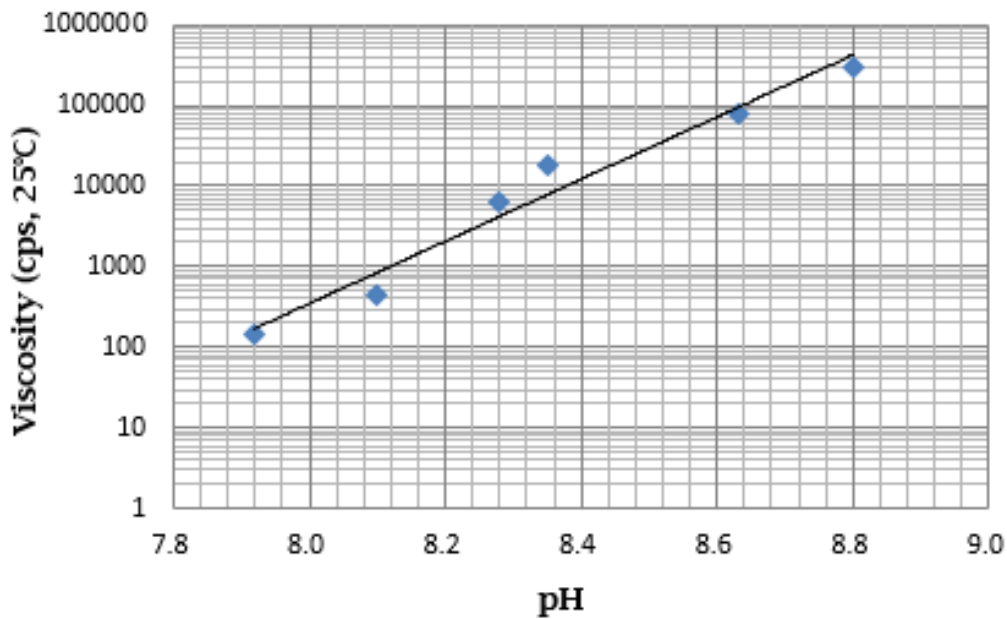


The information given herein and other otherwise supplied to users is based on our general experience and where applicable, on the results of tests on samples of typical manufacture. However, because of the many factors which are outside knowledge and control, which can effect the use of these products, users must rely on their own judgment and we cannot accept liability for any injury, loss or damage resulting from reliance upon such information.

The viscosity change as Non-volatile contents (Ammonia cut)



The viscosity change as pH (Ammonia cut)



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