

# MACRYL-8649

## PRINCIPAL PROPERTIES

Macryl-8649 is hydroxyl functional acrylic copolymer designed to crosslink at room temperature with poly isocyanate and at elevated temperature with Butylated MF Resin.

## APPLICATION

- PLASTIC COATING
- AUTO REFINISH

## CHARACTERISTICS

- HIGH SOLIDS RESIN FOR THE INDUSTRIAL LACQUER SECTOR
- TOP COAT & BASE COAT FOR AUTOMOTIVE
- EXCELLENT FLOW & LEVELLING
- GOOD GLOSS

## PHYSICAL CONSTANTS

Viscosity in 40% Solution in Mix Xylene at 30°C Temperature in Ford Cup B-4	20 – 30 Second
Acid Value (mg KOH/gm)	8 Max
Color (APHA/Pt-Co)	20 Max
Hydroxyl Equivalent Weight	Approx. 750
Hydroxyl Value (mg KOH/gm)	Approx. 75 ± 5

## SOLUBILITY

Xylene	Complete Soluble
n-Butyl Acetate	Complete Soluble
Ethyl Glycol Acetate	Complete Soluble
Methyl Ethyl Ketone	Complete Soluble
n-Butanol	Complete Soluble
Ethyl Alcohol	Complete Soluble
MTO / WS	Not Soluble

## COMPATIBILITY

Short Oil in Xylene/Toluene	Compatible
MF – 910/268/970	Compatible
UF – 8/9001	Limited Compatible
Long Oil in MTO/WS	Not Compatible

## DELIVERY FORM

Macryl-8649	70 ± 2% in Xylene
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### Reaction Ratio

The reaction ratio is calculated from the respective equivalent weight or hydroxyl and isocyanate content of the reactants. Conventional poly isocyanates such as Desmodur N75 and AR - 75 can be used successfully.

**Catalysts:** To increase the initial rate of cure of Macryl 8649 70% based paints, at both ambient temperature and under low bake conditions, the use of tin catalyst in the form of Di Butyl tin Di Laurite is strongly recommended

**Solvent:** The solvents chosen for paints and lacquers based on Macryl -8649 70% should be free of water and should not contain groups that react with isocyanates. Ester and Ketones are True solvents and aromatic hydrocarbons are used as diluents for this system.