



TEXICRYL[®]S-12

INTRODUCTION

TEXICRYL S-12 is an alkali-soluble styrene acrylic resin developed for water-based coatings and inks.

The resin is supplied in solid form, and is designed to impart gloss and resolubility to water-based coatings within the graphic arts market.

CHARACTERISTICS

(Not to be taken as a specification)

Appearance	Solid clear flakes	
Solids content	%	97
Acid Value	mg KOHg-1	220
Glass Transition Temperature		105
Molecular weight		12,500
Specific gravity (at 25°C)		1.13

APPLICATIONS

TEXICRYL S-12 is readily let down, at elevated temperature in water, in the presence of Ammonia or other suitable amine. Solutions of the resin must be kept at all times above pH 7, otherwise the resin will tend to revert back to it's solid form.

The solid resin form / geometry is designed to give rapid solubility when made up into solutions.

The solids content of resin solutions based on **TEXICRYL S-12** should be made up at around 30-35% in order to give optimum pigment grinding capability and in the case of clear coatings, maximum solids to give the highest achievable film build. Yet at this level of solids the resin solution will still flow easily and be pump-able.

Resin Solution Start Point Formul	Resin Solution Start Point Formulation:	
Raw Material	PBW	
Water	635.0g	
Defoamer	0.01g	
Texicryl S12	300.0g	
Ammonia Solution 25%	65.0g	
TOTAL	1000.0g	
pH	9	
Viscosity, cPs	6400	
Method:Add the Texicryl S12 to the water atStir to ensure complete wetting of thAdd the ammonia solution.While stirring heat up to approximatStir until the solid resin has completeNote: Resin can also be cut under himIn the resin solution form, TEXICRYdown solution to clear coatings (OP)are designed to be compatible with alin formulation graphic arts compoTEXICRYL emulsions designed forwell as surfactants, additives waxes a	e solid resin. ely 80°C. ely dissolved. gh speed & shear agitation. /L S-12 may be used as a let- V's) and inks. Resin solutions l components commonly used unds, including the range of the graphic arts market, as	
	TEXICRYL S-12 will impart gloss and resolubility to systems, yet maintaining low foaming and contributing to good printability.	
Due to it's high molecular weight, The to pigment grinding applications.	EXICRYL S-12, is suited well	
TEXICRYL S-12 is supplied in opaq	ue polyethylene sacks.	
Net weight 20 kg per sack; 50 sacks	per shrink-wrapped pallet.	

STORAGE Store away from heat source.

HEALTH & SAFETY	Please see separate Material Safety Data Sheet.
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