



## SYNTRAN® Polymers

### For graphic arts

ZS INTERPOLYMER offers a range of waterbased acrylics based on proprietary technologies that can be used in Inks, Overprint Varnish (OPV) and substrate Primer applications. These polymers are designed to give improved performance over traditional acrylic emulsions. Since these technologies are ZS INTERPOLYMER internally developed, we are able to tailor make solutions to meet our customers' requirements. Below is an overview of each of our proprietary technologies:

Alkali Soluble Technology based on polyacrylic & polymethacrylic acid for enhanced dispersancy, compatibility and sequestering in various coating applications

Shell-Core / Hybrid Technology based on a proprietary process combining polymer types into the same network to improve film formation and overall physical properties.

Self-Crosslinking Technology combines two different crosslinking mechanisms on the same polymer backbone, which substantially increase the chemical resistance, stain resistance and water resistance of the cured polymer film.

Inherently Dull Technology is based on a proprietary manufacturing process that creates an inherently dull acrylic polymer. This technology creates a film with low gloss, flexibility, and excellent stability. This technology also allows for excellent adhesion over multiple substrate types.

Olefin Graft Technology based on a patented process combining olefin and acrylate together in same polymer network for enhanced wear resistance, anti-blocking and mar resistance.

## Product Range

### SYNTRAN® Emulsion

	pH	Solids (%)	MFFT (°C)	Technology	Uses / Comments
3101	7.0	30.0	90°C	Alkali Soluble Acrylic	Inks and Traditional OPV's
3211	7.1	44.0	90°C	Hybrid Acrylic	Traditional OPV's, high gloss
3215	7.5	44.0	20°C	Shell-core acrylic	Zero/Low VOC OPV & Primers
3201	7.5	42.0	45°C	Self-crosslinking Acrylic	Fortified OPV's, high alkali resistance
1693	7.5	42.0	15°C	Self-crosslinking Acrylic	Fortified OPV's, printable
6701	7.5	45.0	0°C	Inherently Dull Acrylic	Low gloss coatings & primers
PA-1465	9.2	38.0	35°C	Olefin-grafed Acrylic	Mar & Scratch Resistance

## Formulating Guidelines

### Overprint Varnish F74-054-01

Ingredient	% wt
SYNTRAN® 3215	61.75
Water	32.00
Leveler	0.15
Defoamer	0.10
SYNTRAN® PA-1465	5.50
Thickener	0.50
<i>Total</i>	<i>100.0</i>



## Applications

- Inks and Overprint varnishes for paper, packaging and paperboard
- For Flexographic & gravure printing processes
- Primers for metalized film, UV coatings and improved printability



## Our company

ZS INTERPOLYMER has been producing waterbased specialty polymers since 1963. We manufacture at 4 facilities worldwide (2 in the United States, 1 each in France and China). ZS INTERPOLYMER is a market leader in several application fields:

- Surface care: Polymers for floor care, carpet cleaners and leather care.
- Consumer specialties: Polymers for mascara, household, hair- and skin- care products, etc.
- Industrial specialties: Functional binders for specialty paint and coating applications, polymers for overprint varnishes and inks, flocculants for ceramics, retanning agents.

With close working relationships with customers, our company produces tailor-made products in order to match specific needs. Our technical service and research and development centres will be your creative and innovative partners.

The suggestions and data included are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale. It is the buyer's responsibility to determine the suitability of the above formulation through quality control and field testing. Suggestions for uses of our products should not be understood as recommendations that they be used in violation of any existing or pending patents.