



SYNTRAN[®] Self-Crosslinking Polymers

For enhanced chemical & stain resistances

ZS INTERPOLYMER offers a range of waterbased acrylics based on a proprietary self-crosslinking technology. This 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. This technology was designed for the self-crosslinking mechanism to fully cure at room temperature, but maintain standard long-term shelf stability.

Product Range

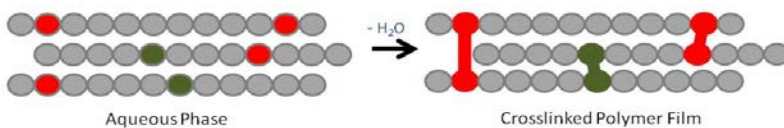
SYNTRAN[®] self-crosslinking acrylics

	pH	Solids (%)	MFFT (°C)	Comment
1655	8.0	40	74°C	Very hard film with excellent chemical resistances
1657	7.5	42	55°C	Med hardness, excellent water, chemical resistances
1693	7.5	42	15°C	Room temperature film former with excellent resistance

These SYNTRAN[®] self-crosslinking acrylic polymers are used in multiple markets to give improved performance over traditional acrylic emulsions. Since this is an ZS INTERPOLYMER internally developed technology, we are able to develop tailor-made solutions based on customer requirements.

The diagram below demonstrates how the crosslinking does not react with itself until the water is removed from the system during the standard film formation process:

Self-Crosslinking Mechanism



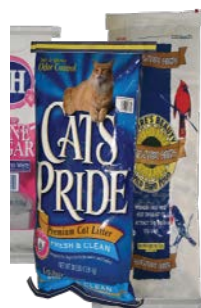
Formulating Guidelines

Concrete Sealer F99-169-03 @30%nv	
Ingredient	% wt
Water	28.99
Benzoflex 9-88	2.89
Propylene glycol butyl ether	2.71
1% active fluorosurfactant	0.90
SYNTRAN® 1657	64.51
Defoamer	q.s.
<i>Total</i>	<i>100.0</i>

Wood Bright Topcoat F74-051-04 @30%nv	
Ingredient	% wt
Water	29.31
Tributoxyethyl phosphate	5.67
Diethylene glycol ethyl ether	3.24
1% active fluorosurfactant	0.81
Defoamer	q.s.
SYNTRAN® 1655	57.13
SYNTRAN® PA-1465	3.84
<i>Total</i>	<i>100.0</i>

Applications

- Concrete, wood and plastic coatings
- Furniture and cabinet coatings
- Overprint varnishes for labels, paper and packaging
- Architectural Paints



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.