

# SYNTRAN® 1693

Technical Bulletin

SYNTRAN® 1693 is based on our proprietary self-crosslinking technology. This technology combines two different crosslinking mechanisms on the same polymer backbone substantially increasing the chemical resistance, stain resistance and water resistance. This technology was designed for the self-crosslinking mechanism to fully cure at room temperature, but maintains long-term shelf stability.

## Performances

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### Applications

Label, board and packaging coatings (OPV)  
Concrete sealers  
Furniture & KCMA coatings

### Features and Benefits

Excellent household stain resistances  
Excellent alkali submersion resistance  
Excellent water submersion resistance  
Excellent adhesion to multiple substrates  
Film has very high gloss, flexibility with good printability  
Zero VOC requirements to formulate coating

## Typical Chemical and Physical Properties (all testing done at 22°C, unless specified)

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<b>Physical form</b>	White emulsion
<b>Solids content</b>	42 ± 1.0%
<b>pH value</b>	7.5 ± 1.0
<b>Viscosity</b>	< 200 cps
<b>Density</b>	1.050 ± 0.005
<b>MFFT</b>	15 ± 3°C
<b>Freeze-thaw stability</b>	Protect from freezing
<b>Stability at 52°C</b>	Unchanged after 30 days

## Safety, Storage, Handling

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Please refer to Material Safety Data Sheet.

Shelf life: 12 months from shipping date in originally sealed containers.

Storage: between 5°C and 35°C.

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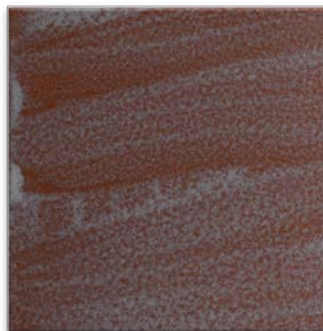
### Water Submersion Test *(Photos show results of coated red quarry tiles after 7 days submersion)*

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Formulation based on Syntran 1693



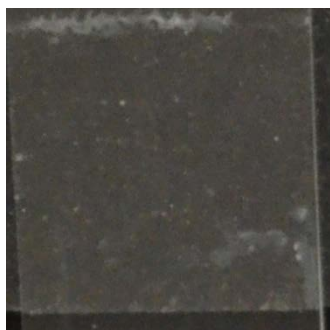
Formulation based on standard acrylic



### Hot Alkali Resistance Test *(Photos show results of coated panel submerged in 80°C NaOH sol after 1 hour)*

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Formulation based on Syntran 1693



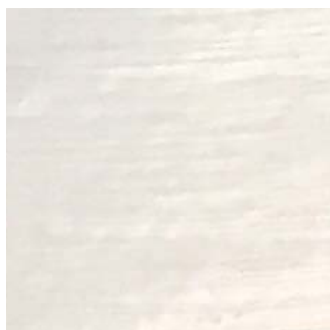
Formulation based on standard acrylic



### Alcohol Rub Test *(Photos show results of painted tiles after 10 rubs with rubbing alcohol using AATCC crockmeter)*

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Formulation based on Syntran 1693



Formulation based on standard acrylic

