

## TECHNICAL DATA SHEET

# ENCOR<sup>®</sup> 1149 S

*Styrene acrylic dispersion*

### PRODUCT APPLICATION DETAILS

ENCOR<sup>®</sup> 1149 S is a self-crosslinking styrene-acrylic binder, free from APEO surfactants. Drying the product over its minimum film forming temperature, a transparent, very rigid and tack-free film is obtained.

After the thermal crosslinking, ENCOR<sup>®</sup> 1149 S shows excellent mechanical properties in dry and wet conditions, combined with a strong water repellency effect and a very good solvent resistance.

ENCOR<sup>®</sup> 1149 S is suitable for nonwoven consolidation or finishing, as well as for technical textile applications and glass fibers. Compatible with external cross-linkers for further increasing its thermal dimensional stability.

### SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Solid content (105°C)	39 - 41 %	ISO 3251
pH	3.5 - 4.5	ISO 976
Viscosity (Brookfield RVT, 100rpm, sp2) (23°C)	40 - 100 mPa.s	ISO 2555

### OTHER CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Stabilizing system	A / NI	-
Glass transition temperature (DSC)	40 °C	-
Density	1.05 g/ml	ISO 2811
Average particle size	180 nm	ISO 13321

<sup>1</sup>The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

### MARKETS & APPLICATIONS

#### Coatings & Inks

- Industrial Coating
  - Protective And Marine Coating
- Textile & Leather Coating
  - Leather
  - Non Woven
  - Textile

#### Chemical & Plastic Industry

- Chemical & Plastic Distribution
  - Other Others

#### Building & Construction

- Construction Materials
  - Bui Composite Fibers

### PERFORMANCE BENEFITS

- High density of crosslinking
- Outstanding resistance to solvents
- Excellent mechanical properties in dry and wet conditions
- Very good thermal dimensional stability

# ENCOR® 1149 S

## FORMULATION GUIDELINES

ENCOR® 1149 S is self-crosslinking, at a speed depending on temperature (from 120°C up to 160°C) and nature of the catalyst(s) used.

The best curing conditions are described in the table below:

CATALYST	AMOUNT	TIME	TEMPERATURE
None	-	3 min	160°C
Ammonium chloride (25% solution)	2%	1 – 3 min	145°C
Oxalic acid (25% solution)	2%	3 – 4 min	130°C

## PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

## STORAGE AND HANDLING

ENCOR® 1149 S should be stored indoors in the original, unopened and undamaged container, in a dry place at storage temperatures between 5°C and 30°C. Exposure to direct sunlight should be avoided. The product is protected to prevent any microbial deterioration during normal conditions of storage but care should be taken to avoid accidental contamination during subsequent handling and processing. In the above mentioned storage conditions the shelf life of the resin will be from the shipping date.

Shelf Life (Months): 6

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