

ENCOR® 1149 S

TEXTILE & NONWOVENS

ARKEMA COATING RESINS

ENCOR® 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.

Product Application details

After the thermal crosslinking, ENCOR® 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® 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.

Performance Benefits

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

Polymer Type

- Styrene-acrylic Copolymer

Sales Specifications

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

Other Characteristics¹

Stabilizing system	A / NI
Tg (DSC), °C	40
Density / Specific Gravity at 23°C, g/ml (ISO 2811)	1.05
Average Particle size, nm (ISO 13321)	180

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

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:

Formulation Guidelines

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 & 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 6 months from the shipping date

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