

ENCOR[®] 1138 S

TEXTILE & NONWOVENS

ARKEMA COATING RESINS

Product Application details

ENCOR[®] 1138 S is a self-crosslinking styrene-acrylic binder, free from APE surfactants. Drying the product over its minimum film forming temperature, a transparent, flexible and almost tack-free film is obtained.

ENCOR[®] 1138 S is ideally suited for pigment printing applications, where it provides a soft and tack-free printed fabric, demonstrating good crockfastness.

Performance Benefits

- Good dry and wet crockfastness
- High durability to washing

Polymer Type

- Styrene-acrylic Copolymer

Sales Specifications

Solid Content % (ISO 3251)	44 - 46
pH (ISO 976)	7.5 - 9,0
Viscosity at 23°C, mPa.s (Brookfield RVT, 100rpm) (ISO 2555)	50 - 250

Other Characteristics¹

Stabilizing system	A / NI
Tg (DSC), °C	- 15
Density / Specific Gravity at 23°C, g/ml (ISO 2811)	1.04
Average Particle size, nm (ISO 13321)	200

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

ENCOR[®] 1138 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® 1138 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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The logo for ARKEMA, with the word in a bold, sans-serif font. The 'A' and 'R' are dark blue, and the 'KEMA' part is green.