

ENCOR[®] 1103 S

TEXTILE & NONWOVENS

ARKEMA COATING RESINS

Product Application details

ENCOR[®] 1103 S is a self-crosslinking acrylic binder, free from APEO surfactants and with a transparent and flexible film, that after the thermal treatment shows a limited tackiness, despite its very low Tg.

ENCOR[®] 1103 S is a versatile polymer that can be used for Technical Textile and for Nonwoven applications. It is compatible with external cross-linkers for further increasing its mechanical properties.

Performance Benefits

- High softness, however the film is not tacky
- Excellent foamability
- Good washing resistance
- Excellent mechanical properties in dry and wet conditions

Polymer Type

- Acrylic Copolymer

Sales Specifications

Solid Content at 105°C, % (ISO 3251)	44 - 46
pH (ISO 976)	7.5 - 9.0
Viscosity at 23°C, mPa.s (Brookfield RVT, 100rpm, sp2) (ISO 2555)	40 - 100

Other Characteristics¹

Stabilizing system	A
Tg (DSC), °C	- 29
Density / Specific Gravity at 23°C, g/ml (ISO 2811)	1.05
Average Particle size, nm (ISO 13321)	275

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

ENCOR[®] 1103 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

Formulation Guidelines

Product Safety

Please refer to the corresponding Safety Data Sheet.

Storage & Handling

ENCOR® 1103 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.

Under the above mentioned storage conditions the shelf life of the resin will be 6 months from the shipping date.

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See SDS for Health & Safety Considerations.

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