

# ENCOR<sup>®</sup> 1103 S

TEXTILE & NONWOVENS

ARKEMA COATING RESINS

ENCOR<sup>®</sup> 1103 S is a self-crosslinking acrylic binder, free from APE surfactants. Drying the product over its minimum film forming temperature, a transparent, flexible and tack-free film is obtained.

## Product Application details

ENCOR<sup>®</sup> 1103 S is recommended for use in the following applications :

- Paste or foam coatings, where it provides an excellent adhesion to polyesters and an excellent washing resistance. As an example, ENCOR<sup>®</sup> 1103 S is ideally suited for black out coatings.
- Bonding of nonwovens (e.g. interlining applications).
- Pigment printing, especially on knitted cotton fabrics.

## Performance Benefits

- Very high softness, however not tacky
- Excellent foamability
- Superior durability to washing
- FDA 21CFR176.105 & 176.180 compliant

## Polymer Type

- Acrylic Copolymer

## Sales Specifications

Solid Content at 105°C, % (ISO 3251)	44 - 46
pH (ISO 976)	7.0 - 9.0
Viscosity at 23°C, mPa.s (Brookfield RVT, 100rpm, sp2) (ISO 2555)	40 - 100

## Other Characteristics<sup>1</sup>

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

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

ENCOR<sup>®</sup> 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

ENCOR<sup>®</sup>

---

## 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.

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

---

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, Arkema expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement. See SDS for Health & Safety Considerations.

Arkema has implemented a Medical Policy regarding the use of Arkema products in medical devices applications that are in contact with the body or circulating bodily fluids (<http://www.arkema.com/en/social-responsibility/responsible-product-management/medical-device-policy/index.html>) Arkema has designated medical grades to be used for such medical device applications. Products that have not been designated as medical grades are not authorized by Arkema for use in medical device applications that are in contact with the body or circulating bodily fluids. In addition, Arkema strictly prohibits the use of any Arkema products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Arkema trademarks and the Arkema name shall not be used in conjunction with customers' medical devices, including without limitation, permanent or temporary implantable devices, and customers shall not represent to anyone else, that Arkema allows, endorses or permits the use of Arkema products in such medical devices.

It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements (FDA or other national drug agencies). It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warn purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any postmarket surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.

### Arkema Coating Resins

420, rue d'Estienne d'Orves

92705 Colombes Cedex - France

arkema.com - [arkemacoatingresins.com](http://arkemacoatingresins.com)

