

TECHNICAL DATA SHEET

ENCOR[®] 1103 S

Acrylic dispersion

PRODUCT APPLICATION DETAILS

ENCOR[®] 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.

ENCOR[®] 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[®]1103 S is ideally suited for black out coatings.
- Bonding of nonwovens (e.g. interlining applications).
- Pigment printing, especially on knitted cotton fabrics.

SALES SPECIFICATIONS

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

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Stabilizing system	A	-
Glass transition temperature (DSC)	- 29 °C	-
Density	1.05 g/ml	ISO 2811
Average particle size	275 nm	ISO 13321

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

MARKETS & APPLICATIONS

Coatings & Inks

- Textile & Leather Coating
 - Non Woven
 - Textile

Building & Construction

- Construction Materials
 - Bui Composite Fibers

Automotive & Transportation

- Other Automotive & Transportation
 - Automotive Fibers

PERFORMANCE BENEFITS

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

ENCOR[®] 1103 S

FORMULATION GUIDELINES

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

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

STORAGE AND 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 from the shipping date.

Shelf Life (Months): 6

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