

ASUCRYL E-A FF/P

TECHNICAL DATA SHEET

DESCRIPTION

Asucryl E-A FF/ P is a very soft self-crosslinking acrylic binder indicated for pigment printing on cellulosic and synthetic fabrics (and its blends). Suitable for garment and fabric printing. It does not contain formaldehyde and does not release it during the curing stage. It allows to meet the Oeko-Tex Standard 100 Class I.

STANDARDS

- bluesign® approved
- ZDHC Gateway Level 3.
- Screen Chemistry by Scivera.
- According to GREEN TO WEAR SUPPORTING DOCUMENTS by INDITEX Group, valid at the date of issue of this document (see footer), this product does not need chemical testing because it meets the requirements of Option 2 – ZDHC Gateway Chemical Module.

PROPERTIES

- Excellent dry and wet rubbing fastness.
- Very good washing fastness.
- Very good light fastness.
- Not tacky.
- Elastic.
- Excellent runnability on printing machines.
- Formaldehyde free.
- APEO free.
- ASUCRYL E-A FF/P can be used TOGETHER with REDUCTOR DC or REDUCTOR H-113 in discharge (rongeant) PRINTING PROCESSES.

CHARACTERISTICS

Appearance	Liquid
Colour	White
pH	6.75 ± 1.25
Viscosity	30 - 100 cps
Composition	Acrylate based copolymer
Ionic character	Anionic
Solid content	45 ± 1 %
Tg	-20 °C

The indications given herein correspond to practical experiences. Owing to the differences in local conditions they cannot claim to be complete, so that any liabilities –also with a view to claims of third parties – are excluded.

APPLICATION

Guideline

Mix Asucryl E-A FF /P with water. Stir it slowly, while adding the additives, to ensure a good homogeneous solution. Increase the speed when adding the thickener and keep on running until it gets completely incorporated and homogeneous. The ratio pigment:binder will define the fastness properties (a minimum amount of binder must be added to the paste even for the palest shades – 80 g/Kg is recommended). The following formula calculates the amount of resin that is needed to bind all the pigment particles and, hence, good fastness properties:

$$\begin{array}{rcl} \text{Pigment dispersion}^* & & X \text{ g/Kg} \\ \text{Binder}^{**} & & 80 \text{ g/Kg} + 2X \text{ g/Kg} \end{array}$$

* Calculation based on a pigment dispersion containing a 30 - 40 % of pigment.

** Calculation based on a resin containing a 40 - 45 % of solids.

Therefore, if 20 g/Kg of pigment dispersion is used; 120 g/Kg of binder should be added [Binder (g/Kg) = 80 + 2 x 20 = 120].

Printing paste (g/Kg)

ASUPRINT Pigment	X
ASUCRYL E-A FF /P	Y
ANTIFOAM NCS/2	3
Ammonia 25% (adjust to pH 8.5)	2 - 3
ASUMIN E-DMS ECO	0 - 20
CLEAR E-PG-N A.C.	17

	1000

- Print.
- Dry.
- Cure with hot air during 5 min at 150°C or 3 min at 170°C or 1 min at 180°C.

REMARKS

- Add 5 - 10 g/kg of **CATALIZADOR E-FF** to increase overall fastness or to improve adhesion to the fiber.



ASUCRYL E-A FF/P meets the bluesign® criteria

- Complies with the strict ecological and toxicological requirements of the bluesign® criteria
- Properly applied it allows a production with a minimum impact on people and the environment
- Basis for bluesign® approved textiles and accessories

For more information visit www.bluesign.com

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