

# SIPACRIL CP 29

AQUEOUS EMULSION OF ACRYLIC COPOLYMER FOR TEXTILE COATING.

## Chemical composition:

Aqueous dispersion of acrylic polymers.

## Chemical and Physical characteristics:

|                    |                         |
|--------------------|-------------------------|
| Aspect (at 20°C):  | Milky liquid            |
| Ionic type:        | Anionic                 |
| Active content:    | 45% ca.                 |
| Specific Gravity:  | 1,03 Kg/dm <sup>3</sup> |
| pH, (as received): | 6.0 - 7.0               |
| Tg (DSC)           | - 11°C                  |

## CHARACTERISTICS (FILM)

|                |             |
|----------------|-------------|
| Aspect:        | Transparent |
| Handle :       | Soft        |
| Light Fastness | Good        |

## Properties and application:

### ADVANTAGES

- Soft handle
- Good flexibility, also at temperatures below zero
- Good adhesion to the majority of fabric types
- Good resistance to normally used solvents
- Good fastness to washing and dry cleaning
- Good fastness to light and weathering

### FIELDS OF APPLICATION

- Coatings with soft handle for clothing, anoraks, sports clothing.
- Coatings for external use: tentings, awnings, and umbrella fabrics.
- Padding
- Binder for pigment printing and dyeing

SIPACRIL CP 29 may be applied by the following methods :

- Air-knife coating
- Knife-on-cylinder coating
- Reverse roll coating
- padding

- Flocking devices
- Flat or rotary screen printing

**Instruction for use:**
APPLICATION BY COATING

SIPACRIL CP 29, as supplied, is low viscosity, which can be increased by the addition of 1.0 - 5.0 % of thickener VISCOLAM 115 NEW (pre-diluted 1 : 1 with water) on weight of SIPACRIL CP 29, followed by the addition of ammonia to pH 8.5 - 9.0 to desired viscosity.

If there are problems with foam, or entrapped air, then we suggest to add 5.0 – 20 g/Kg of DEFOMEX VO to the paste during preparation

After the application on to the fabric, it is necessary to cure for 2 - 3 mins at 130 - 150°C. to obtain the required reticulation.

To obtain a better curing it is possible to add melaminic resins to the paste e.g. CELLOFIX VLF or blocked isocyanates as ROLFLEX BK8 , followed by polymerization at 150 – 160°C (initial drying zone 120°C).

In this way it is possible to eliminate the thermo-plasticity, reduce the swelling in humid conditions, and improve the fastness to washing and dry cleaning of the finishes produced.

**NOTE :**

It is possible to modify the handle of the finishing (e.g. harder, dryer, etc) by the addition of other polymeric emulsions/dispersions e.g. TEXTOL RGD or TEXTOL PV/CC.

It is also possible the addition of PU based polymeric dispersion e.g. ROLFLEX AP, ROLFLEX ZB/7, ROLFLEX K/80.

In all cases it is necessary to make pre-tests to ensure stability of the dispersions, pastes, and handles obtained.

The addition of 2.0 - 5.0% of colloidal silica to the paste gives an opaque appearance, also removes any stickiness of the coated film when the dry add-on is high.

Pigmented coatings:

For pigmentation we recommend to use anionic pigments

**Storage and packing:**

The product should be stored in a dry area at temperature higher than 5°C and far away from heat

Storage stability: 12 month

Packing Plastic drum of 125 kg, plastic tank of 1000 kg.

Notes: Before the usage of our products in bulk conditions, we advice to carry out some tests in order to evaluate if the product reach customer requirements.