

Polyfam[®] 783

Technical Data Sheet

Characteristics

Polyfam[®] 783 is a self-crosslinking acrylate based aqueous dispersion.

Stabilization

Surfactants

Recommended Application Areas

Pigment printing

Specification

These technical data are determined for each batch before its release by our quality control laboratory.

	Unit	Value	Dev.
Solids content (ISO 1625: 1h; 105 °C)	%	40 ±	1
Viscosity (ISO 2555; Spindle no. 1; 60 rpm; 23 °C) Brookfield-viscometer LVT	mPa.s (cP)	Max.	100
pH value (ISO 976)		7 ±	1

Additional Data

These data are solely to describe the product. They are not subject to constant monitoring or part of the specification.

	Unit	Value
Dispersion		
Minimum film forming temperature (MFFT) (ISO 2115)	°C	< 0
Density (ISO 2811)	g/cm ³	approx. 1.01
Film *		
Appearance		Clear, slightly tacky
Hardness, Koenig (ISO 1522)	s	10
Tg	°C	°C 0 approx -35

Dried 1hr at 60°C then 24hr at 23±2°C and 50±5% relative humidity (ISO 3270)
Tested at 23±2°C and 50±5% relative humidity (ISO 3270)

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

Applications

Polyfam[®] 783 is suitable as a binder for pigment printing pastes for printing on cellulosic and synthetic fabrics and blends, e.g. polyester/cellulosic. Pigment prints produced with Polyfam[®] 783 exhibit very good light fastness, excellent resistance to mechanical stress as in rubbing and washing and a soft handle.

Processing

Polyfam[®] 783 dries at temperatures higher than 0°C to form clear and tack free films.

Polyfam[®] 783 can be applied in different pigment systems; the first two are most widely used:

- Systems with a synthetic thickener.
- Systems with a synthetic thickener and a small amount of white spirit
- Emulsions based on white spirit

Polyfam[®] 783 should be added to the stock paste vessel containing water and possibly antifoam.

It is not necessary to cure the printed films. But in order to obtain higher fastness properties, it is preferable to post-cure the films with hot air for 5 minutes at 150°C, 90 seconds at 170°C or one minute at 180°C.

Preservation and Storage

The dispersion contains some initial preservatives to prevent attack by microorganisms. In order that the product is also sufficiently protected against microbial contamination during further storage in opened drums or storage tanks, a suitable preservative should be added despite our preliminary preservation measures and the tanks and pipework should be kept adequately clean.

Prior to use, Polyfam[®] 783 should be stored for no longer than 6 months at temperatures as constant as possible between 5 and 35 °C and must be protected from frost and direct exposure to sunshine. Furthermore, it must be ensured that already opened drums or containers are always tightly closed.

The technical data ascertained by our quality control laboratory at the time of product release may vary according to the storage conditions and may deviate from the stated limits.

Industry Safety and Environmental Protection

Not a hazardous substance.

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