



Emulsions & Additives for Printing Ink Industry

Product Brochure



Texochem Industries

ISO 9001:2015 Certified

Product Overview



Steering the intricacies of the Printing Ink industry for over two decades, we bring forth water-based solutions crafted for excellence. Constantly evolving to cater to the dynamic needs of this sector, our ongoing innovation adds to a growing portfolio. Explore our key offerings in Emulsions and Additives:

Product Name	% solids	Primary Application	Key Advantages
Texcryn 77	47 ± 1	Film forming Hard Emulsion	High gloss retention property
Texcryn FI-36	36 ± 1	Pigment grinding resin	Very small particle size imparts good binding to pigments
Texcryn CPR-289	43 ± 1	Colloidal Emulsion	High viscosity at low dosage
Texcryn CPR-299	43 ± 1	Colloidal Emulsion	Low foaming tendency
Texcryn P-730	50 ± 1	Emulsion for MVTR Coating	Self crosslinking property improves barrier performance
Texcryn P-851	48 ± 2	Barrier Coating	Resistant to tough stains
Texcryn HSL-30	50 ± 1	Emulsion for Paper Heat Seal	Free from blocking tendencies
Texcryn TWA-2741	50 ± 2	PU Dispersion for Heat Seal	Very low heat activation temperature
Texcryn 236-H	36 ± 2	Solvent Resistant Emulsion	Provides a hard and durable finish
Texcryn ST-60	30 ± 1	Acrylic Thickener	Effective at low shear mixing
Texcryn D-50	30 ± 1	Polymeric Dispersing Agent	Improves color strength
Texcryn DF-02	20 ± 2	Silicone Defoamer	Easy dispersion in aqueous systems

Emulsions for Inks & OPVs

Emulsion polymerization has attracted most interest in industrial and academic setting because of the advantages it provides over other types of polymerization techniques. It forms a ready to use, high molecular weight polymer at lower viscosities, and provides the ability to control submicron particle size and morphology.



Texcryl 77

Film forming, hard emulsion

Typical Parameters

% Solids	47 ± 1%
Glass transition temperature (Tg)	15°C – 20°C
Molecular weight	> 200,000 g/mol

Texcryl FI-36

Emulsion for Flexographic Inks

Typical Parameters

Appearance	Transparent green liquid
% Solids	36 ± 1%
Viscosity	1200 – 1500 cPs

Texcryl CPR-289

Colloidal emulsion

Typical Parameters

% Solids	43 ± 1%
Glass transition temperature (Tg)	60°C – 70°C
Molecular weight	> 1,10,000 g/mol

Polyurethane Dispersions

For Specialty Product Developments

Polyurethane Dispersions (PUDs) boast excellent adhesion to various substrates, flexibility, toughness, and resistance to abrasion, chemicals, solvents, and water. PUDs consist of polyurethane particles suspended in water, resulting in a stable colloidal suspension. Unlike traditional solvent-based polyurethane coatings, PUDs provide a more environmentally friendly alternative with low volatile organic compound (VOC) emissions and reduced health hazards.



Texane HD-1346

Aliphatic Polyester PUD

Typical Parameters

% Solids	35 ± 1%
Viscosity	< 450 cPs
% Elongation	< 220%

Texane HD-2503

Solvent Resistant, Aliphatic PUD

Typical Parameters

% Solids	35 ± 1%
Viscosity	< 450 cPs
Konig Hardness	160

Texane SD-1139

PUD for Textile & Leather Inks

Typical Parameters

% Solids	40 ± 1%
Viscosity	< 450 cPs
% Elongation	600% – 800%



Barrier Coating Solutions

Barrier coatings are dispersions of film forming polymers, additives, and possibly pigments. Barrier coatings seal the substrate surface and protect the packaging from external and internal influences. The packaging remains attractive and can fulfil its functionality without restrictions.

Depending on the product, barrier coatings offer adequate protection against fat, water, water vapor, dairy products, alcohol, oil, or alkali for the packaging.



Texcryl OGR-87

Water, Oil & Grease Resistant

Typical Parameters

% Solids	49 ± 1%
Viscosity	150 – 300 cPs
Particle size	150 – 170 nm

Texcryl HCB-30

Emulsion for Cupstock coatings

Typical Parameters

% Solids	48 ± 1%
Viscosity	1000 – 3000 cPs
Particle size	220 – 240 nm

Texcryl MTR-730

Moisture Vapor Resistant

Typical Parameters

% Solids	50 ± 1%
Viscosity	1000 – 3000 cPs
Particle size	150 – 170 nm

Emulsions for Heat Sealing

There are increasing demands for replacing polyethylene (PE) with an aqueous coating which can seal the paper material on application of heat. Most polymers in aqueous coatings are amorphous and do not have a melting point as PE (110°C). Therefore, they often gradually soften or become sticky at elevated temperature (49-54°C). Hence maintaining the glass transition temperature of the binder for such applications becomes a very critical parameter.



Texcryl HL-50

For paper-paper sealing

Typical Parameters

% Solids	49 ± 1%
Viscosity	20 – 100 cPs
Heat Activation Temperature	90°C

Texane FS-35

For aluminum/paper laminates

Typical Parameters

% Solids	34 ± 1%
Viscosity	10 – 150 cPs
Heat Activation Temperature	80°C

Texane TA-41

For difficult to bond substrates

Typical Parameters

% Solids	40 ± 2%
Viscosity	15 – 200 cPs
Heat Activation Temperature	50°C

Additives

Thickeners, Dispersants & Defoamers

Acrylic Thickeners are dispersions of acid functional acrylic polymers and are particularly efficient at increasing low shear viscosity.

Dispersing agents are typically used to solve issues of pigment settling, flooding, floating, and pigment flocculation.

It is generally accepted that **Defoamers** must possess controlled incompatibility, low surface tension, and de-wetting characteristics.



Texcryl ST-60

Acrylic Associative Thickener

Typical Parameters

% Solids	30 ± 1%
Viscosity (for 1% neutralized soln)	2000 – 4000 cPs
pH sensitive	Yes

Texcryl D-50

Polymeric Dispersing Agent

Typical Parameters

% Solids	30 ± 1%
Molecular weight	5000 g/mol
Stabilization mechanism	Sterio-electrostatic

Texsil DF-142

Silicone Defoamer

Typical Parameters

% Solids	20 ± 1%
Defoaming activity (50ppm active)	Max 8 sec
Foaming mechanism	Antifoam



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