

It is our pleasure to introduce Anuvi Chemicals Ltd. an ISO 9001 - 2015 Company - one of India's largest manufacturers of specialty products and customized solutions. We offer solutions for various industries like Paints, Inks, Non-woven Textiles, Leather, Ceramics and Construction.

With over 3 decades in business, in-depth knowledge about polymers, and an innovation-first approach, we have earned the trust of clients from far and wide. We have centered our operations around three main pillars - Innovation, Co-creation and being Future ready. These powerful values have helped us scale the distance we have thus far.

With technology being the backbone of the company, we have constantly innovated products and services to give clients an edge in an already competitive market. Supported by a strong R & D team and highly qualified engineers, we ensure that our product quality is always above industry standards. All our products are water based so you have a solutions partner that not only delivers high performance, but is also eco-friendly and future ready. A rare combination of success and responsibility.

IMPRES is a specially designed range of Acrylic Colloidal Solutions and Additives for water based flexographic inks. Eco IMPRES is extremely eco-friendly since it is Ultra low VOC, APEO, formaldehyde and glycol ether free. It is a range of acrylic solutions and emulsions that plays an important role in making water based flexographic inks and overprint varnishes. Eco IMPRES range not only enhances product value but is also cost effective.



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think ink
think **IMPRES™**

Water-based products for Inks and Overprint Varnishes

| Product | Appearance | pH | Solid Content in % | Viscosity at 30°C Brookfield in cps (Spindle/RPM:3/60) & Fordcup FCB4 in secs | Molecular Weight | Acid Value in mg of KOH/g | Glass Transition Temp. Tg in °C | Properties | Recommended Applications |
|---------|------------|----|--------------------|---|------------------|---------------------------|---------------------------------|------------|--------------------------|
|---------|------------|----|--------------------|---|------------------|---------------------------|---------------------------------|------------|--------------------------|

Styrene Acrylic Resin Solutions - 2000 Series (Glycol ether free and Ultra low VOC)

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|------------------------|--------------------------------|-----------|---------|----------------------------------|----------|-----|-----------|---|--|
| ECO-IMPRES 2061 - A | Pale yellow liquid | 8.0 - 9.0 | 29 - 31 | 100 - 120 secs | > 12,000 | 215 | 105 – 107 | Ammonia - based, fast drying and glossy | As ingredient for water-based overprint varnishes. As a pigment grinding medium for water-based flexographic label inks and gravure inks. |
| ECO-IMPRES 2062 - M | Pale yellow liquid | 8.0 - 9.0 | 32 - 36 | 200 - 500 cps | > 12,000 | 215 | 105 – 107 | MEA - based, medium drying and glossy | As a pigment grinding medium for water-based flexographic label inks, gravure inks and corrugation inks. |
| ECO-IMPRES 2064 - D | Pale yellow liquid | 7.5 - 9.5 | 37 - 39 | 300 - 700 cps | > 12,000 | 215 | 105 – 107 | DMEA - based, slow drying, glossy with very low odour | As a pigment grinding medium for water-based flexographic label inks, gravure inks and corrugation inks. |
| ECO-IMPRES 2065 - T | Pale yellow clear liquid | 7.5 - 9.5 | 36 - 40 | 200 - 400 cps | > 12,000 | 215 | 105 – 107 | TEA - based, very slow drying, glossy with very low odour | As a pigment grinding medium for water-based corrugation inks. |
| ECO-IMPRES 2066 - HPPD | Transparent pale yellow liquid | 7.5 - 9.5 | 33 - 37 | 300 - 600 cps | > 16,000 | 220 | 100 – 110 | Excellent pigment grinding and gloss promoting medium for water-based inks | High molecular weight acrylic resin solution for superior dispersion and wetting of organic pigments in pigment concentrates for label narrow web flexographic inks. |
| ECO-IMPRES 2067 - A/M | Dark yellow liquid | 8.0 - 9.0 | 44 - 46 | 300 - 700 cps | > 2,000 | 230 | 55 – 60 | Ammonia and MEA - based, high gloss | Water-based high gloss single-sided overprint varnishes and glossy flexographic inks. |
| ECO-IMPRES 2068 - A | Pale yellow clear liquid | 8.0 - 8.5 | 33 - 38 | 8000 - 15000 cps (spindle:4/12) | > 12,000 | 215 | 105 – 107 | Ammonia - based, high viscosity | As a pigment grinding medium for water-based corrugation inks. Can be used along with pigment press cakes as well. |
| ECO-IMPRES 2069 - M | Pale yellow clear liquid | 7.5 - 9.5 | 47 - 49 | 10000 - 16000 cps (spindle:4/12) | > 12,000 | 215 | 105 – 107 | MEA-based, high viscosity, slower drying as compared to ECO - IMPRES 2068 - A | As a pigment grinding medium for water-based corrugation inks. Can be used along with pigment press cakes as well. |

Styrene Acrylic Resin Solutions - 4000 Series (Glycol ether free and Ultra low VOC)

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|------------------------|--------------------------------|-----------|---------|----------------------------------|----------|-----|-----------|---|--|
| ECO-IMPRES 4061 - A | Pale yellow clear liquid | 7.5 - 9.5 | 29 - 31 | 100 - 120 secs | > 12,000 | 215 | 105 – 107 | Ammonia-based, fast drying and glossy | As ingredient for water-based overprint varnishes. As a pigment grinding medium for water-based flexographic label inks and gravure inks. |
| ECO-IMPRES 4062 - M | Pale yellow liquid | 8.0 - 9.0 | 32 - 36 | 200 - 500 cps | > 12,000 | 215 | 105 – 107 | MEA - based, medium drying and glossy | As a pigment grinding medium for water-based flexographic label inks, gravure inks and corrugation inks. |
| ECO-IMPRES 4064 - D | Pale yellow liquid | 7.5 - 9.5 | 37 - 39 | 300 - 700 cps | > 12,000 | 215 | 105 – 107 | DMEA-based, slow drying, glossy with very low odour | As a pigment grinding medium for water-based flexographic label inks, gravure inks and corrugation inks. |
| ECO-IMPRES 4065 - T | Pale yellow clear liquid | 7.5 - 9.5 | 36 - 40 | 200 - 400 cps | > 12,000 | 215 | 105 – 107 | TEA-based, very slow drying, glossy with very low odour | As a pigment grinding medium for water-based corrugation inks. |
| ECO-IMPRES 4066 - HPPD | Transparent pale yellow liquid | 7.5 - 9.5 | 33 - 37 | 300 - 600 cps | > 16,000 | 220 | 100 – 110 | Excellent pigment grinding and gloss promoting medium for water-based inks | High molecular weight acrylic resin solution for superior dispersion and wetting of organic pigments in pigment concentrates for label narrow web flexographic inks. |
| ECO-IMPRES 4067 - A/M | Dark yellow liquid | 8.0 - 9.0 | 44 - 46 | 300 - 700 cps | > 2,000 | 230 | 55 – 60 | Ammonia and MEA - based, high gloss | Water-based high gloss single-sided overprint varnishes and glossy flexographic inks. Also, for high gloss pigment dispersions used in high value label inks. |
| ECO-IMPRES 4068 - A | Pale yellow clear liquid | 7.5 - 9.5 | 33 - 38 | 8000 - 15000 cps (spindle:4/12) | > 12,000 | 215 | 105 – 107 | Ammonia-based, high viscosity | As a pigment grinding medium for water-based corrugation inks. Can be used along with pigment press cakes as well. |
| ECO-IMPRES 4069 - M | Pale yellow clear liquid | 7.5 - 9.5 | 47 - 49 | 10000 - 16000 cps (spindle:4/12) | > 12,000 | 215 | 105 – 107 | MEA-based, high viscosity, slower drying as compared to ECO - IMPRES 4068 A | As a pigment grinding medium for water-based corrugation inks. Can be used along with pigment press cakes as well. |
| ECO-IMPRES 4058 - C | Transparent pale yellow liquid | 7.5 - 9.5 | 33 - 37 | 400 - 600 cps | > 12,000 | 215 | 105 – 107 | Fast drying, glossy and low odour | As ingredient for water-based printing inks with superior resolubility properties. |

Styrene Acrylic Emulsions - 2000 Series (APEO, Formaldehyde, Glycol ether free and Ultra low VOC)

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|-------------------|-------------------------|-----------|---------|----------------|-----------|----|-----|---|--|
| ECO-IMPRES 2074 | Semi-translucent liquid | 7.5 - 9.5 | 47 - 49 | 100 - 150 secs | > 200,000 | NA | -8 | Film forming, soft & slow drying | Ingredient for high gloss overprint varnishes and inks for non absorbent stocks. As an ingredient in let-down medium in flexographic and corrugation inks. |
| ECO-IMPRES 2074 F | Semi-translucent liquid | 7.5 - 9.5 | 45 - 47 | 70 - 80 secs | > 200,000 | NA | 18 | Film forming, soft & slow drying. Has superior adhesion on non-absorbent substrates | Ingredient for high gloss overprint varnishes and inks for non absorbent stocks. And as an ingredient in let-down medium in flexographic inks. Also can be used in overprint varnishes employed for certain heat sealing applications. |
| ECO-IMPRES 2077 | Semi-translucent liquid | 7.5 - 9.5 | 46 - 48 | 200 - 600 cps | > 200,000 | NA | 42 | Film forming, hard and fast drying | Ingredient for overprint varnishes. Does not require coalescing agent. Used as a let-down medium in flexographic and corrugation inks. |
| ECO-IMPRES 2090 | Milky white liquid | 7.5 - 9.5 | 44 - 46 | 75 - 150 secs | > 200,000 | NA | 105 | Non film forming, brittle and fast drying | Ingredient for high gloss overprint varnishes and inks. It provides high heat resistance properties. It requires coalescing agent. Used as a let-down medium in flexographic and corrugation inks. |

Water-based products for Inks and Overprint Varnishes

| Product | Appearance | pH | Solid Content in % | Viscosity Brookfield in cps (Spindle/RPM: 3/60) at 30°C | Molecular Weight | Acid Value in mg of KOH/g | Glass Transition Temp.Tg in °C | Properties | Recommended Applications |
|---------|------------|----|--------------------|---|------------------|---------------------------|--------------------------------|------------|--------------------------|
|---------|------------|----|--------------------|---|------------------|---------------------------|--------------------------------|------------|--------------------------|

Styrene Acrylic Emulsions - 4000 Series (APEO, Formaldehyde, Glycol ether free and Ultra low VOC)

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|-------------------|-------------------------|-----------|---------|----------------|-----------|----|-----|--|--|
| ECO-IMPRES 4074 | Semi-translucent liquid | 7.5 - 9.5 | 47 - 49 | 100 - 150 secs | > 200,000 | NA | -8 | Film forming, soft, slow drying. | Ingredient for high gloss overprint varnishes and inks for non absorbent stocks. As an ingredient in let-down medium in flexographic and corrugation inks. |
| ECO-IMPRES 4074 F | Semi-translucent liquid | 7.5 - 9.5 | 45 - 47 | 100 - 150 secs | > 200,000 | NA | 18 | Film forming, soft, slow drying. Has superior adhesion on non-absorbent substrates. | Ingredient for high gloss overprint varnishes and inks for non absorbent stocks. And also as an ingredient in let-down medium in flexographic inks. Can be used in overprint varnishes employed for certain heat sealing applications. |
| ECO-IMPRES 4077 | Semi-translucent liquid | 7.5 - 9.5 | 46 - 48 | 200 - 600 cps | > 200,000 | NA | 42 | Film forming, hard and fast drying. | Ingredient for overprint varnishes. Does not require coalescing agent. Used as a let-down medium in flexographic and corrugation inks. |
| ECO-IMPRES 4090 | Milky white liquid | 7.5 - 9.5 | 44 - 47 | 200 - 600 cps | > 200,000 | NA | 105 | Non film forming, brittle and fast drying. | Ingredient for high gloss overprint varnishes and inks. It provides high heat resistance properties. It requires coalescing agent. Used as a let-down medium in flexographic and corrugation inks. |
| ECO-IMPRES 4055 | Milky white liquid | 7.5 - 9.5 | 47 - 49 | 300 - 500 cps | > 200,000 | NA | 103 | Non film forming, brittle and fast drying. Has low water resistance, very low odour and excellent resolubility | Ingredient for water-based printing inks with high gloss and optical clarity. It provides high heat resistance. It requires coalescing agent. Can be used for better reproduction of half-tone prints. |

Acrylic Colloidal Emulsions

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|-------------|-----------------------------|------------|---------|----------------------------|----|----|-----|---|--|
| IMPRES 2000 | Bluish green viscous liquid | 7.0 - 8.5 | 34 - 36 | 60 - 200 secs | NA | NA | 12 | Neutralised and film forming. Viscosity is sensitive to pH changes. Lower heat resistance. | Single resin system, grinding and let-down medium for water-based corrugated flexographic inks. For post-corrugation printing systems only. |
| IMPRES 2050 | Translucent liquid | 8.0 - 9.0 | 44 - 46 | 15 - 25 secs | NA | NA | 106 | Neutralised and non film forming. Improves Tg of the water based inks. High heat resistance. | Single resin system, grinding and let-down medium for water-based corrugated flexographic inks. For pre and post-corrugation printing systems. |
| IMPRES 10 | Milky white liquid | 8.0 - 10.0 | 49 - 51 | 500 cps max (spindle:2/60) | NA | NA | 4 | Film forming and having good gloss. Compatible with natural binders. | Binder for paper coatings. Single resin system, grinding and let-down medium for water-based corrugated flexographic inks. For post-corrugation printing systems only. |
| IMPRES 2059 | Milky white liquid | 7.5 - 8.5 | 41 - 43 | NA | NA | NA | 21 | Film forming. Has good adhesion on PVC films. | Let-down medium for water-based corrugated flexographic inks. For post-corrugation printing systems only. |
| IMPRES 2001 | Milky white liquid | 1.5 - 2.5 | 40 - 44 | 10 - 15 secs | NA | NA | 28 | Un-neutralised and film forming. Considerable viscosity increase above 7 pH. | Economical grinding as well as let-down medium [upto 13 - 15 % solids with dilution]. Hence most economical alternative for water-based corrugated inks. For post-corrugation printing systems only. |
| IMPRES 2003 | Milky white liquid | 2.0 - 4.0 | 40 - 44 | 10 - 15 secs | NA | NA | 70 | Acrylic colloidal emulsion for use in inks or pre-print and post-print corrugated board and craft paper applications. | Good transfer and printability, excellent mar resistance. |

Specialty Products

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|--------------|--------------------|-----------|---------|--------------------------------|-----------|----|----|---|---|
| IMPRES OP-31 | Milky white liquid | 8.0 - 9.0 | 44 - 48 | 2000 - 4000 cps (spindle:4/12) | > 200,000 | NA | 70 | Hides brown background of the corrugated paper. Gives brighter and intense colours. Has an excellent resolubility. Glycol ether free. | When used in the let-down part of the ink, it improves the colour intensity and brightness. Opacity of the emulsion helps in reducing pigment concentration in the ink. |
|--------------|--------------------|-----------|---------|--------------------------------|-----------|----|----|---|---|

Water-based Additives

Acrylic Additives

| Product | Appearance | pH | Solid Content in % | Viscosity Brookfield in cps (Spindle/RPM: 2 /60) at 25°C | Recommended Dosage in % | Characteristics | Recommended Applications |
|----------------|-------------------------------|------------|--------------------|--|-------------------------|--|---|
| IMPRES K -1432 | Clear to slightly hazy liquid | 8.0 - 10.0 | 13.5 - 15.5 | 100 - 170 (5% soln.) | 1.0 - 5.0 | Polyammonium acrylate in solution form. Compatible with soaps, dispersing agents and synthetic detergents. | Acrylic thickeners for water-based inks. |
| IMPRES 2060 | Milky white liquid | 2.0 - 4.0 | 27 - 29 | 2000 - 4000 (Neutralized) on 3/12 RPM | 1.0 - 5.0 | Thickens the system in-situ and has a minimal flocculating action. | Acrylic thickeners for water-based inks. |
| IMPRES C - 50 | Pale yellow clear liquid | 9.0 - 10.5 | 29 - 31 | 100 - 250 | 0.1 - 0.5 | Sodium salt of carboxylic acid having excellent dispersion capacity. Enhances colour strength of inks. | Dispersing agent for inorganic pigments. |
| IMPRES 2574 | Clear yellow liquid | 8.0 - 10.0 | 35 - 37 | 50 - 250 | 0.1 - 0.5 | Imparts good gloss and provides very good stability to inks rheology. | Superior wetting and dispersing agent for inorganic pigments and extenders. |

Specialty Additives

| Product | Additive | Appearance | Recommended Dosage in % | pH | Density in g/cc | Characteristics | Recommended Applications |
|-----------------|--|----------------------------|-------------------------|-------------|-----------------|---|--|
| ECO-IMPRES 6001 | Defoamer | Milky white Liquid | 0.5 - 1.0 | 7.0 - 9.0 | 1.01 ± 0.01 | VOC-free, polymer based defoamer for aqueous coatings, adhesives, printing inks and overprint varnishes. | It is a very effective VOC-free defoamer for aqueous printing inks, overprint varnishes and inkjet printing inks. It has no negative influence on the runnability and does not cause any defects in the print image. |
| ECO-IMPRES 6002 | Defoamer | Milky white Liquid | 0.5 - 1.0 | 6.0 - 8.0 | 1.01 ± 0.01 | VOC and silicone free, polymer-based economical defoamer for aqueous coatings, adhesives, printing inks and overprint varnishes. | It is a very effective silicone-free economical defoamer for aqueous printing inks, overprint varnishes and inkjet printing inks. It has no negative influence on the runnability and does not cause any defects in the print image. |
| ECO-IMPRES 6003 | Slip additive | Clear colourless liquid | 0.2 - 1.0 | 7.0 - 9.0 | 1.01 ± 0.01 | Compound of silicone-based polymers for aqueous coatings and inks. | It is a very effective silicone-based slip additive for aqueous printing inks, overprint varnishes and inkjet printing inks. It has no negative influence on the runnability and does not cause any defects in the print image. |
| ECO-IMPRES 6004 | Scuff additive | Milky white viscous Liquid | 0.6 - 1.2 | 7.0 - 9.0 | 1.01 ± 0.01 | VOC-free polyethylene (PE)-based scuff improving additive. | It is a very effective scuff improving compound usable in printing water-based inks and OPVs. It has no negative influence on the runnability and does not cause any defects in the print image. May result in slight gloss reduction in case of highly glossy products. |
| ECO-IMPRES 6005 | Surface wetting additive | Off-white Liquid | 1.0 - 3.0 | 5.5 - 7.5 | 1.01 ± 0.01 | Substrate wetting additive for aqueous coatings and inks. | It is a very effective substrate wetting additive for improving lay on top of substrates or wet printing inks, overprint varnishes and inkjet printing inks. It has no negative influence on the runnability and does not cause any defects in the print image. |
| ECO-IMPRES 6007 | pH refresher additive | Clear colourless liquid | 0.5 - 1.0 | 10.0 - 12.0 | 1.01 ± 0.01 | pH adjusting additive for aqueous coatings and inks. It readjusts the lowered pH levels of inks and coatings on the printing machines. | It is a very effective substrate pH adjusting additive for aqueous printing inks, overprint varnishes and inkjet printing inks. It has no negative influence on the runnability and does not cause any defects in the print image. |
| ECO-IMPRES 6008 | Retarder | Clear colourless liquid | 1.0 - 3.0 | 10.0 - 12.0 | 1.12 ± 0.01 | Ink retarder additive for improving print image quality by not allowing the ink to dry on the printing plate and/or anilox roller. | It is a very effective additive for minimizing the ink drying on the photopolymer plates and anilox thereby maintaining a higher print quality during long print runs. |
| ECO-IMPRES 6009 | Cylinder, plate & anilox cleaning additive | Off-white Liquid | NA | 11.0 - 13.0 | 1.09 ± 0.01 | Does not allow aqueous ink or coating to dry on the anilox printing machine. Also helps in final cleaning of the water-based inks from the printing machines. | Cleaner for flexo anilox and plates. Best way to use by applying the cleaner to the plate and anilox as soon as the printing is completed and then clean the machine. |
| ECO-IMPRES 6010 | Anti bacterial solution | Clear colourless liquid | 0.5 - 1.0 | 4.0 - 6.0 | 1.01 ± 0.01 | Anti-bacterial additive for aqueous coatings and inks. | It is a very effective additive for improving life of the aqueous ink or coating system. |

Water-based Overprint Varnishes (OPV)

| Product | Description | Appearance | pH | Solid Content in % | Viscosity Brookfield in cps (Spindle/RPM: 3/60) at 30°C | Viscosity Fordcup FCB4 in secs | Gloss at 60° in GU | Heat Resistance | Scuff Properties Rubs [wt 2 lbs] | Recommended Applications |
|---------|-------------|------------|----|--------------------|---|--------------------------------|--------------------|-----------------|----------------------------------|--------------------------|
|---------|-------------|------------|----|--------------------|---|--------------------------------|--------------------|-----------------|----------------------------------|--------------------------|

3000 Series

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|-----------------------|--|-------------------------|-----------|---------|-----------|---------|-----------|-----------|-------------|--|
| ECO-IMPRES 3001 | General purpose overprint varnish | Milky white liquid | 7.5 - 9.5 | 40 - 44 | 200 - 400 | 50 - 90 | Good | Good | Above 1000* | General purpose aqueous overprint varnish for work-n-turn jobs. It provides superior heat resistance properties for coater applications. Application in paper, carton and label printing. |
| ECO-IMPRES 3002 | Single sided high gloss overprint varnish | Milky white liquid | 7.5 - 8.5 | 40 - 44 | 200 - 400 | 50 - 90 | Excellent | Medium | Above 1000* | Single-sided high gloss aqueous overprint varnish for coater applications. Used for paper, carton and label printing. Because of high gloss and high slip, recommended application of this OPV is for playing cards. |
| ECO-IMPRES 3003 | High heat resistance overprint varnish | Milky white liquid | 7.5 - 9.5 | 40 - 42 | 200 - 300 | 50 - 90 | Medium | Excellent | Above 1000* | High heat resistance aqueous overprint varnish for coater applications. Used for paper, carton and label printing. |
| ECO-IMPRES 3004 | High scuff overprint varnish | Semi-translucent liquid | 7.5 - 9.5 | 39 - 43 | 200 - 300 | 50 - 90 | Medium | Good | Above 2000* | High scuff aqueous overprint varnish for coater applications. |
| ECO-IMPRES 3005 | Paper board sealer /primer and economical overprint varnish | Milky white liquid | 7.5 - 9.5 | 35 - 37 | 100 - 200 | 30 - 60 | NA | Medium | NA | Aqueous sealer for paper, paper board. It is also used as economical overprint varnish. Used as a primer for paper, carton and label printing. |
| ECO-IMPRES 3006 | UV in-line primer | Translucent liquid | 7.5 - 9.5 | 34 - 38 | 50 - 150 | 20 - 50 | NA | Medium | NA | UV in-line primer. Generally applied over wet offset inks with further UV in-line coating over itself. |
| ECO-IMPRES 3007 | Aqueous satin-finish overprint varnish | Milky white liquid | 7.5 - 9.5 | 35 - 39 | 200 - 300 | 50 - 90 | 25 - 30 | Good | Above 1500* | Aqueous satin-finish overprint varnish for coater applications. Used for paper, carton and label printing. |
| ECO-IMPRES 3008 | Aqueous matt-finish overprint varnish | Milky white liquid | 7.5 - 9.5 | 36 - 38 | 200 - 300 | 50 - 90 | < 10 | Good | Above 1500* | Aqueous matt-finish overprint varnish for coater applications. Used for paper, carton and label printing. |
| ECO-IMPRES 3009 HG HR | High gloss and high heat resistance overprint varnish | Milky white liquid | 7.0 - 9.0 | 39 - 43 | 200 - 300 | 50 - 90 | Good | Excellent | Above 1000* | High gloss and high heat resistance aqueous overprint varnish for coater applications. Used for paper, carton and label printing. |
| ECO-IMPRES 3010 | Aqueous primer for metallized film applied to enhance adhesion of UV/ other inks on metallised polyester surface | Translucent liquid | 7.5 - 9.5 | 45 - 47 | 200 - 300 | 50 - 80 | NA | NA | NA | Aqueous metallised film primer applicable via offline coater units on the metallised filmic stocks |

4000 Series

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|-----------------------|--|-------------------------|-----------|---------|-----------|---------|-----------|-----------|-------------|--|
| ECO-IMPRES 4001 | General purpose overprint varnish | Milky white liquid | 7.5 - 9.5 | 40 - 44 | 200 - 400 | 50 - 90 | Good | Good | Above 1000* | General purpose aqueous overprint varnish for work-n-turn jobs. It provides superior heat resistance properties for coater applications. Application in paper, carton and label printing. |
| ECO-IMPRES 4002 | Single-sided high gloss overprint varnish | Milky white liquid | 7.5 - 8.5 | 40 - 44 | 200 - 400 | 50 - 90 | Excellent | Medium | Above 1000* | Single-sided high gloss aqueous overprint varnish for coater applications. Used for paper, carton and label printing. Because of high gloss and high slip, recommended application of this OPV is for playing cards. |
| ECO-IMPRES 4003 | High heat resistance overprint varnish | Milky white liquid | 7.5 - 9.5 | 40 - 42 | 200 - 300 | 50 - 90 | Medium | Excellent | Above 1000* | High heat resistance aqueous overprint varnish for coater applications. Used for paper, carton and label printing. |
| ECO-IMPRES 4004 | High scuff overprint varnish. Gloss offered by this product is moderate. | Semi-translucent liquid | 7.5 - 9.5 | 39 - 43 | 200 - 300 | 50 - 90 | Medium | Good | Above 2000* | High scuff aqueous overprint varnish for coater applications. |
| ECO-IMPRES 4005 | Paper board sealer/primer and economical overprint varnish | Milky white liquid | 7.5 - 9.5 | 35 - 37 | 100 - 150 | 30 - 60 | NA | Medium | NA | Aqueous sealer for paper, paper board. It is also used as economical overprint varnish. Used as a primer for paper, carton and label printing. |
| ECO-IMPRES 4006 | UV in-line primer | Translucent liquid | 7.5 - 9.5 | 34 - 38 | 50 - 150 | 20 - 50 | NA | Medium | NA | UV in-line primer. Generally applied over wet offset inks with further UV in-line coating over itself. |
| ECO-IMPRES 4007 | Aqueous satin-finish overprint varnish | Milky white liquid | 7.5 - 9.5 | 35 - 39 | 200 - 300 | 50 - 90 | 25 - 30 | Good | Above 1500* | Aqueous satin-finish overprint varnish for coater applications. Used for paper, carton and label printing. |
| ECO-IMPRES 4008 | Aqueous matt-finish overprint varnish | Milky white liquid | 7.0 - 9.5 | 36 - 38 | 200 - 300 | 50 - 90 | < 10 | Good | Above 1500* | Aqueous matt-finish overprint varnish for coater applications. Used for paper, carton and label printing. |
| ECO-IMPRES 4009 HG HR | High gloss and high heat resistance overprint varnish | Milky white liquid | 7.0 - 9.0 | 38 - 42 | 200 - 300 | 50 - 90 | Good | Excellent | Above 1000* | High gloss and high heat resistance aqueous overprint varnish for coater applications. Used for paper, carton and label printing. |
| ECO-IMPRES 4010 | Aqueous primer for metallised film applied to enhance adhesion of UV/ other inks on metallised polyester surface | Translucent liquid | 7.5 - 9.5 | 45 - 47 | 200 - 300 | 50 - 80 | NA | NA | NA | Aqueous metallised film primer applicable via offline coater units on the metallised filmic stocks. |

* under controlled laboratory conditions

Water-based Overprint Varnishes (OPV)

| Product | Description | Appearance | pH | Solid Content in % | Viscosity Brookfield in cps (Spindle/RPM: 3/60) at 30°C | Viscosity Fordcup FCB4 in secs | Gloss at 60° in GU | Heat Resistance | Scuff Properties Rubs [wt 2lbs] | Recommended Applications |
|---------|-------------|------------|----|--------------------|---|--------------------------------|--------------------|-----------------|---------------------------------|--------------------------|
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4000 Series

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|-----------------|---|--------------------|-----------|---------|-----------|---------|------|------|-------------|---|
| ECO-IMPRES 4014 | Water repellent coating having water beading property | Off-white liquid | 7.5 - 9.5 | 35 - 39 | 100 - 200 | 30 - 50 | NA | NA | NA | Water Repellent coating for craft paper used in corrugation applications for storage and transportation of ice cream packs and perishables-vegetables, fruits etc. using refrigerated containers. |
| ECO-IMPRES 4015 | Blister pack/ heat seal overprint varnish | Translucent liquid | 7.5 - 9.5 | 45 - 47 | 200 - 300 | 50 - 80 | NA | NA | NA | Common applications are for heat sealing PVC onto the carton board or on the aluminium foil. e.g. toothbrush packaging, battery cell packaging, pharma tablet packaging etc. |
| ECO-IMPRES 4016 | Economical general purpose overprint varnish | Off-white liquid | 7.5 - 9.5 | 31 - 34 | 200 - 400 | 50 - 90 | Good | Good | Above 1000* | Economical general purpose overprint varnish. Application in paper, carton and label printing. |
| ECO-IMPRES 4025 | Water repellent & heat seal overprint varnish | Translucent liquid | 7.5 - 9.5 | 39 - 41 | 100 - 200 | 30 - 50 | NA | NA | NA | Water repellent coating for craft paper used for storage and transportation of ice-cream packs & perishables. Also used for heat sealing PVC onto the carton board or aluminium foil eg., tooth brush packaging, batteries packaging etc. |

Duct Varnishes

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|-----------------|------------------------------|------------------|-----------|---------|-----------------------------|----|---------|--------|-------------|--|
| ECO-IMPRES 5001 | General purpose duct varnish | Off-white Liquid | 7.5 - 9.5 | 50 - 54 | 5000 - 7000 (spindle: 4/12) | NA | Good | Medium | Above 1000* | General purpose duct varnish used for in-line offset printing. |
| ECO-IMPRES 5007 | Satin-finish duct varnish | Off-white Liquid | 7.5 - 9.5 | 50 - 54 | 5000 - 7000 (spindle: 4/12) | NA | 25 - 30 | Medium | Above 1000* | Satin-finish duct varnish used for in-line offset printing. |
| ECO-IMPRES 5008 | Matt-finish duct varnish | Off-white Liquid | 7.5 - 9.5 | 50 - 54 | 5000 - 7000 (spindle: 4/12) | NA | <10 | Medium | Above 1000* | Matt-finish duct varnish used for in-line offset printing. |

* under controlled laboratory conditions



High gloss, high slip varnish



Varnishes for blister packing



Inks for paper cups & bags



Corrugation Inks



Inks for food packaging