

GSC'S OUTRIGHT PRINT-LAM



► ABOUT US

GLS Speciality Chemicals is a rapidly emerging ink manufacturing company which has been establishing a notable position in the Indian printing market. "Innovation" and "Compliance" are our key strategies. We make continuous efforts to develop state-of-the-art technologies. GLS Speciality Chemicals always aims to serve affordable, innovative and safe solutions possible with great ability, to accomplish all the requirements of our valuable customers.

GLS Speciality chemicals believes in adopting methodology towards designing its products as per the existing and upcoming regulations throughout the globe as a result GLS Speciality chemicals proves to be a successful business partner with a vision to ensure sustainable & continuous growth for its customer.



GLS Speciality Chemical offers a wide range **of safe, innovative & high-performance printing & packaging products.**

HIGHLIGHTS



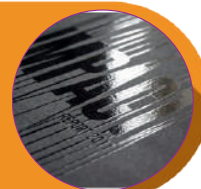
- ▶ Technology & Innovation Driven
Organization governed by experts with multi domain expertise.
- ▶ Wide network of customers within India and other countries across the globe, including Nepal, Nigeria, Bangladesh, South-East Asia, Middle East, UAE, Latin America.
- ▶ High-end Migration analysis & Analytical lab fully equipped with sophisticated analytical instruments, including Head-space GC, Pyrolysis GC-MS, GPC, FTIR, High-speed centrifuge, WVTR & OTR etc. State-of-the-art research facilities for designing and developing cutting edge innovative products.
- ▶ Dedicated PSR (Product Safety & Regulatory) team works closely with the government regulatory bodies including BIS (Bureau of Indian Standards) and FSSAI and actively participate in the conceptual stage itself for revising and drafting new food safety guidelines/regulations.
- ▶ Organizes seminars to encourage awareness about Product Safety & Regulations among our valuable customers.
- ▶ A dynamic and dedicated R&D team consisting of PhD's, MTech's, Chemistry post-Graduates and engineering graduates are always engaged with finding out out-of-the box solutions to support our esteemed customers.
- ▶ In-house library along with membership of Bureau of Indian Standards (BIS) library to stay ahead of meeting local and global regulatory compliance.
- ▶ Large R&D infrastructure equipped with automated machineries, multipurpose pilot reactors, large storage tanks etc. for supporting industrialization process and designing printing ink, resins/binders and adhesives of newer chemistries & utilizing complex scale-up procedures.
- ▶ Implemented ISO 9001, ISO 14001, OHSAS 18001 and even GMP (good manufacturing practices) within the company's premises successfully.

GLS SPECIALITY CHEMICAL PRODUCT PORTFOLIO



Gravure Cylinders

UV & Water Based Coatings



Polyurethane Binders & Resins

Lamination Adhesives



Printing Inks

Special Applications Products



USP OF OUR PRODUCTS

Printing Inks



- High performance Tailor Made In- House
- Customized PUs, Resins & Binders
- Meet Compliances & Regulations

Water Based Printing Inks



- High performance ink
- Surface & reverse applications
- Applicable for gravure & CI flexo
- Applicable for multiple substrate

Polyurethane Binders & Resins



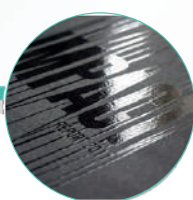
- Customized as per customer's requirements
- Tailor-Made In-house
- To design compliant & innovative products

- High performance
- Tailor-Made In-house polyol, Resin
- Multi-Purpose Adhesive
- Compliance Products



Adhesives

- Customized Products
- Exceptional Characteristics
- Special Texture



UV & Water Based Coatings

- Customized as per customer's requirements
- Special Characteristics & High Performance



Special Applications Products

1. PRINTING INKS

GLS Speciality chemicals offers numerous high performance printing inks with exceptional characteristics for both surface and reverse applications used via gravure or flexographic printing ink processes. Our inks are designed in compliance with various national & internal food safety & packaging regulations.

- Water base inks for surface applications for gravure printing process.
- Water base inks for surface applications for CI flexographic printing process.
- Solvent based inks for gravure printing and CI flexographic processes.
- Aromatic hydrocarbon free, particularly Toluene and MEK free printing inks for food packaging applications.

Reverse Inks

- Vintop series
- Pureflex TB series
- Pureflex NT series
- Exopp series
- Exopp Plus series
- Purecolor series (NTNK)
- Pureflex NTNK HSLV series
- PUSHINE Ink Series

Tobacco Products

- NITROCAP
- NITROTIP

Surface & Reverse Applications

Surface Inks

Gravure Inks

- Nitrofoil series
- Polygloss series
- Polygloss Plus series
- Hydroflex Met series
- Nitrowrap series
- HexaPVC Series
- Nitrovalue Gr-SF Series

Surface Inks

Flexographic Inks

- Nitrofilm Plus CI Flexo inks
- Hydroflex Met series

Reverse Inks

Flexographic Inks

- Nitrovalue HB series
- Nitrovalue EL series
- Aqua Plus series

SOLVENT BASED GRAVURE INKS

Segment (Surface/ Reverse)	Product Name	Resin System	Applicable substrates	Application / USP
Surface	Nitrofoil Inks	NC Based	Chrome art Paper/ AL. Foil Paper/ Metallized Paper/ Foil Paper	Good heat resistance; Excellent Scuff & Scratch resistance; good Printability
Surface	Polygloss Inks	Polyamide Based	Nat. LDPE/ Milky PE/ Pearlized BOPP	Outstanding Gloss; Excellent printability; Good nail resistance; excellent scuff & scratch resistance; Desirable printability. Label application
Surface	Polygloss Plus Inks	Polyamide Based	Nat. LDPE/ Milky PE/ Pearlized BOPP	Outstanding Gloss; Good Water & Deep freeze resistance; Desirable printability; Good nail resistance; excellent scuff & scratch resistance; better printability; Label application.
Surface	Nitrowrap Inks	NC PU Based	Nat. LDPE/ Milky PE/ Pearlized BOPP	Outstanding Gloss; Excellent printability; Good nail resistance; excellent scuff & scratch resistance; Desirable printability; Label Application for high HR approx. 180°
Surface	Nitrovalue Gr. SF Inks	NC PU Based	Nat. LDPE/ Milky PE	Outstanding Gloss; Excellent printability; Good nail resistance; excellent scuff & scratch resistance; Desirable printability; Good deep freeze milk & oil resistance with OPV.
Surface	Nitrocaps Inks	NC Based	Paper board	Good heat resistance; Excellent Scuff & Scratch resistance; good Printability for Paper board.

Segment (Surface/ Reverse)	Product Name	Resin System	Applicable substrates	Application / USP
Surface	Nitrotip Inks	NC Based	Tipping Paper	Good heat resistance; Excellent Scuff & Scratch resistance; good Printability for Tipping Paper.
Reverse	Vintop Inks	Vinyl Based	PET/ CC PET/ CT PET	Better printability; Good Adhesion & Bond strength
Reverse	Pureflex TB Inks	PU Based	PET/ CC PET/ CT PET/ BOPP	High Strength, Toluene Based PU inks for better printability & good bond strength.
Reverse	Pureflex NT Inks	PU Based- NT	PET/ CC PET/ CT PET/ BOPP	Toluene free inks with excellent printability; Good Bond strength & Adhesion
Reverse	HexaPVC Inks	NC ACRYLIC Based	PVC	Good adhesion on PVC; Better Scuff & Scratch resistance; Better Nail & Rub resistance; Good blocking resistance
Reverse	Purecolor Inks	PU Based- NTNK	PET/ CC PET/ CT PET/ BOPP	Toluene & MEK free inks with desirable Bond strength; Better printability; Good Adhesion
Reverse	Exopp Inks	EVA & CPP Based	BOPP	Excellent PP Extrusion Bond Strength; Better Printability; Good Adhesion
Reverse	Exopp Plus Inks	EVA & CPP Based	BOPP	Outstanding PP Extrusion Bond Strength. Better Printability; Good Adhesion; Toluene free ink
Reverse	Pushine Inks (TB)	PU Based	PET/ CC PET/ CT PET/ BOPP	Better Bond strength & printability; Good compatibility with SB adhesives.
Reverse	Pureflex NTNK HSLV Inks	PU Based	PET/ CC PET/ CT PET/ BOPP	High strength low viscosity ink; Better Bond strength & printability; Good compatibility with SB adhesives.

WATER BASED INKS

Segment (Surface/ Reverse)	Product Name	Resin System	Applicable substrates	Application / USP
Surface	Hydroflex Met Series	Acrylic	Chroma Art, Met & Foil Paper	Good heat resistance; Excellent Scuff & Scratch resistance; good Printability
Reverse	Aqua plus series	Acrylic	PET	Good printability; Better Adhesion Bond strength

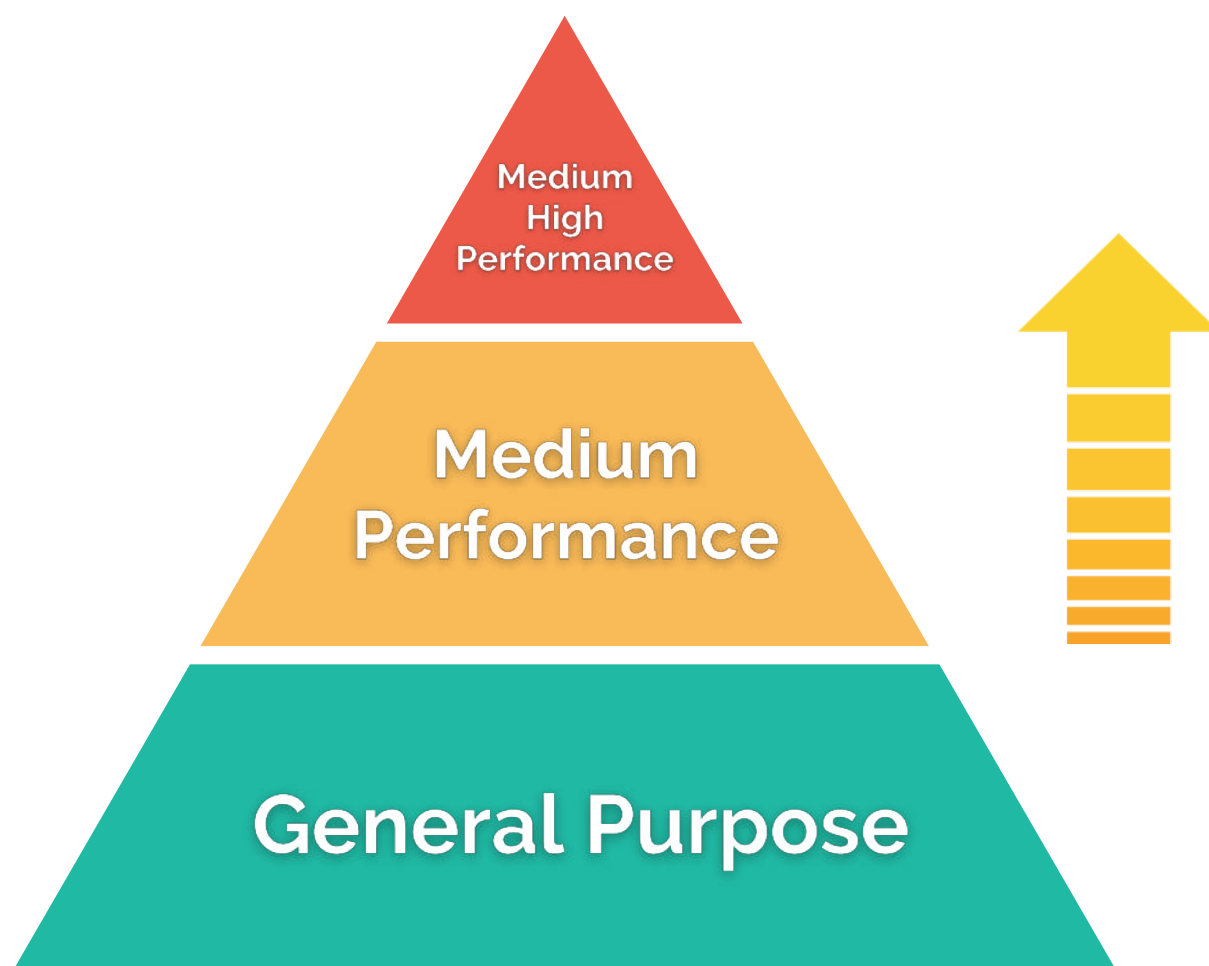
CI FLEXO INKS

Segment (Surface/ Reverse)	Product Name	Resin System	Applicable substrates	Application / USP
Surface	Nitrofilm Plus CI flexo Ink series	NC-PU	LDPE, HS BOPP	Good heat resistance; Excellent Scuff & Scratch resistance; good Printability
Reverse	Nitrovalue EL Ink series. (PVC Free)	NC-PU	BOPP & PET	Good printability; Better Adhesion Bond strength & extrusion bond strength
Reverse	Nitrovalue HB Ink Series	NC-PU	BOPP & PET	Good printability; Better Adhesion Bond strength



2. PERFORMANCE PYRAMID

SOLVENT BASED ADHESIVES



Medium High Performance

Foil structures for hot-fill, aggressive filling like hair Dyes, Liquor, etc. HEXABOND GL- 770R/HEXABOND GL-770A

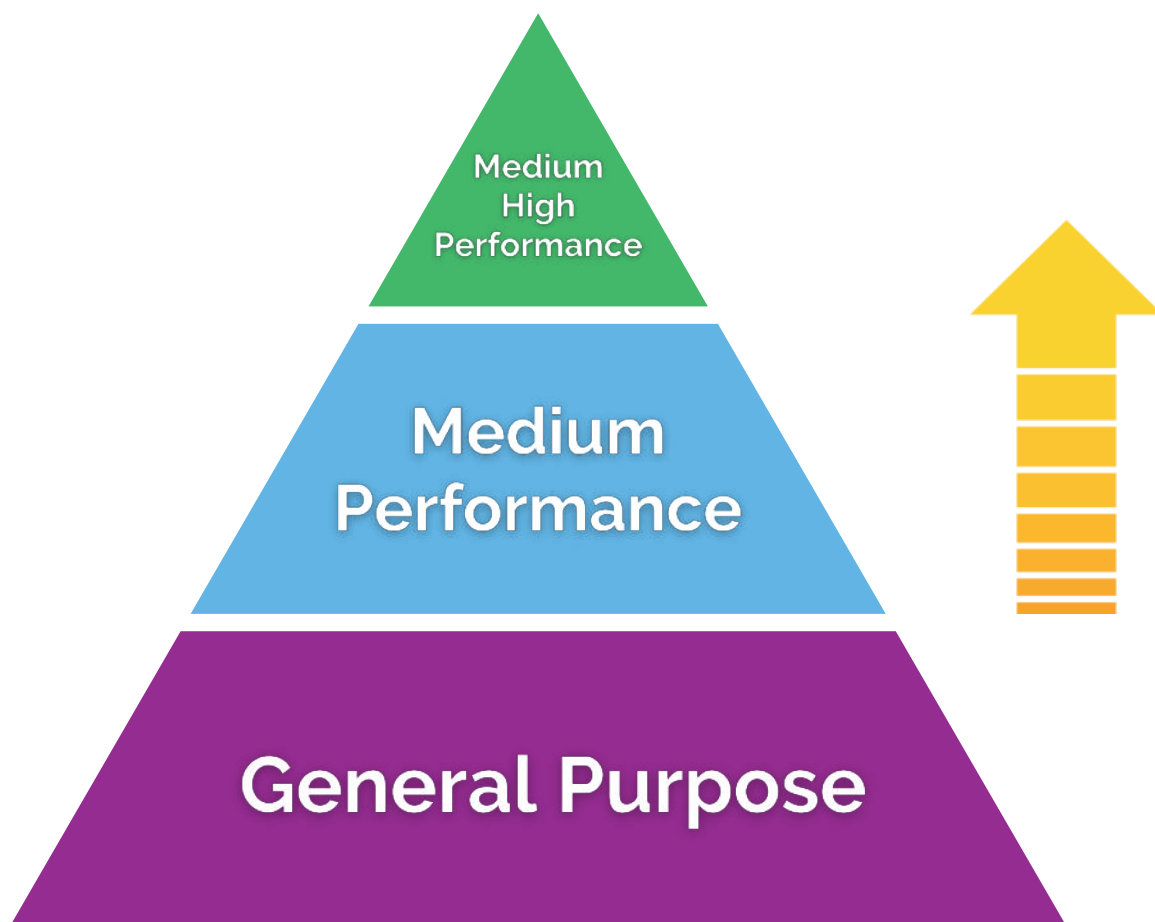
Medium Performance

Spices / Masala, Milk powder, Atta, Salt, Frozen Foods, Stand up pouch, Shampoos, Oil. HEXABOND GL-611A/75 HL & H E X A BOND GL-660/75 HL

General Purpose

Salty snacks/Confectionery/Bottle labels/Bakery (Snack food, Biscuits, Pulses, Noodles) HEXABOND GL-585/HEXABOND GL-75HL

SOLVENT FREE ADHESIVES



Medium High Performance

Foil structures for hot-fill, aggressive filling like hair Dyes, Liquor, etc.

HEXABOND GL-SF 9120/HEXA BOND SF C-617

HEXABOND GL-SF9033A/ HEXABOND SF C-608

Medium Performance

Spices / Masala, Milk powder, Atta, Salt, Frozen Foods, Stand up pouch, Shampoos, Oil.

HEXABOND GL-SF 9075/HEXABOND SF C-695,

HEXABOND GL-SF 9083/HEXABOND SF C-703,

HEXABOND GL-SF 798A/HEXABOND SF C-40

General Purpose

Snack food, Biscuits, Pulses, Noodles, Masala (Spices) etc.

HEXABOND GL-SF 9091/HEXABOND SF C 810,

HEXABOND GL-SF 9089/HEXABOND SF C 709

HEXABOND SMEAR GUARD GL-SF 9093/HEXABOND SF C812

3. GLS PACKAGING ADHESIVES

GLS Chemicals provide high quality general, medium and high-performance adhesive system for both food contact and non- food contact applications.

SOLVENT BASED ADHESIVES

Product Name	Hardener used	Applicable substrates	RATIO	Application / USP
HEXABOND GL-585 (2FG-GL-2K-001)	HEXABOND GL-75HL (2FG-GL-2K-SBH-001)	General Performance adhesive	(100:15)	Good Green Bond; Suitable for N2 Flushing of nonaggressive dry food products packaging.
HEXABOND GL -660 (2FG-GL-2K-002)	HEXABOND GL-75HL (2FG-GL-2K-SBH-001)	Medium Performance adhesive	(100:12)	Excellent chemical & heat resistance; Suitable for packaging of liquids, oils, spices.
HEXABOND GL -672 (2FG-GL-2K-003)	HEXABOND GL-75HL (2FG-GL-2K-SBH-001)	Medium Performance adhesive	(100:15)	Provides immediate green bond; Specially designed for alcohol Packaging. Also suitable for soap, shampoo, spices, edible oil etc.
HEXABOND GL -770R (2FG-GL-2K-004)	HEXABOND GL -770A (2FG-GL-2K-005)	Medium High Performance Reverse Chemistry adhesive	(100:4)	High Green Strength; Good Product stability in Alu complexes, this adhesive use for catchup & sauces.
HEXABOND GL611A (2FG-GL-2K-006)	HEXABOND GL-75HL (2FG-GL-2K-SBH-001)	Medium performance	(100:10)	Medium performance adhesive; Provides immediate green bond; Suitable for applications like soap, shampoo, spices, edible oil etc.
HEXABOND GL -711A (2FG-GL-2K-007)	HEXABOND -15R (2FG-GL-2K-SBH-002)	Medium performance	(100:15)	Medium performance adhesive; Suitable up to 100μ LDPE; Excellent chemical & heat resistance; suitable for packaging of liquids, oils, spices etc.

Product Name	Hardener used	Applicable substrates	RATIO	Application / USP
HEXALAC GL-509A (2FG-GL-2K-008)	HEXANATE GL-600 I (2FG-GL-2K-009)	Medium performance	(100:100)	Especially design for metalized structure(printed or unprinted),It provide good green bond strength on Aluminium foil and variety of films.
HEXABOND GL621W (2FG-GL-2K-010)	HEXABOND GL-15RW (2FG-GL-2K-SBH-003)	Medium performance	(100:11)	Medium performance adhesive: suitable for complete white opaque background Provides immediate green bond and good adhesion on metalized films; Suitable for applications like as PET, OPP, Nylon, LLDPE, PE & Alu foil/film
HEXABOND GL621A (2FG-GL-2K-011)	HEXABOND GL-75HL (2FG-GL-2K-SBH-001)	Medium performance	(100:11)	Medium performance adhesive: suitable for film /film and film /Aluminium laminates.

SOLVENT FREE ADHESIVES

Product Name	Hardener used	Applicable substrates	RATIO	Application / USP
HEXABOND GL-SF 9091 (2FG-HEXSFO01)	HEXABOND SF C810 (2FG-HEXSFO02)	General performance adhesive	(100:100)	This product is suitable non aggressive food products for PET to MET PET, film to Alu. film.
HEXABOND GL-SF 9089 (2FG-HEXSFO03)	HEXABOND SF C709 (2FG-HEXSFO04)	General performance adhesive	(100:100)	This product is suitable for PET to MET PET film.
HEXABOND GL-SF 9075 (2FG-HEXSFO05)	HEXABOND SF C695 (2FG-HEXSFO06)	General to medium performance adhesive. Exhibits good wettability on metalized & LDPE film.	(100:75)	This product is suitable for PET-LDPE 18μ to 60μ film. BOPP to LDPE 18μ to 60μ film. PET to MET PET

Product Name	Hardener used	Applicable substrates	RATIO	Application / USP
HEXABOND GL-SF 9083 (2FG-HEXSF007)	HEXABOND SF C703 (2FG-HEXSF-008)	General to medium performance adhesive	For LDPE (100:60) For MET PET (100:70)	This product is suitable for PET, BOPP, MET BOPP, MET CPP, and Alu. Foil and LLDPE. Good heat resistance and no residue odor.
HEXABOND GL-SF 698A (2FG-HEXSF009)	HEXABOND SF C - 40 (2FG-HEXSF-010)	General to medium performance adhesive		Suitable for high-speed lamination for BOPP, MET BOPP, LLDPE, MCPP also having good heat resistance.
HEXABOND GL-SF 9120 (2FG-HEXSF011)	HEXABOND SF C617 (2FG-HEXSF-012)	Medium to high performance adhesive	For Poly (100:70) For MET PET (100:80)	Suitable for N2 flushing of packaging of non-aggressive food products, it exhibits good wettability on Alu. Foil.
HEXABOND GL-SF 9033A (2FG-HEXSF013)	HEXABOND SF C608 (2FG-HEXSF-014)	Medium to high performance adhesive good pot life; Exhibits good HR properties & suitable up to 125μ LDPE.	For Poly (100:60) For MET PET (100:70)	Suitable for high thickness poly 120μ125μ, it can work with cold nip pressure roller.
HEXABOND -1K 1030-SF ADHESIVE 2FG-GL-1K-015		General performance		Fast curing adhesion for foil, paper & board applications
HEXABOND -1K 930-SL ADHESIVE (2FG-GL-1K-016)		General performance	(100:75)	Fast curing to paper & board and good adhesion to films, Applications, courier bags.
HEXABOND - SMEARGARD GL-SL-9093 (2FG-HEXSF-017)	HEXABOND - SMEARGARD-SF C-812 (2FG-HEXSF-018)	General performance	(100:85)	General purpose smear free adhesive for metalized film for food packaging

WATER BASED ADHESIVES

Product Name	Applicable substrates	Application / USP
AQUABOND 902D PLUS	Suitable for Chrome Art Paper /Foil Laminates; Chrome Art Paper/PET Film, Foil/Glossy paper/Foil Laminates.	Economic grade; Suitable for food packaging; low odor ready to use waterborne synthetic resin, provides excellent gloss & film clarity; formaldehyde free.
AQUABOND 908L	Suitable for Chrome Art Paper /Foil Laminates; Chrome Art Paper/PET Film, Foil/Glossy paper/Foil Laminates.	Suitable for food packaging; low odor ready to use waterborne synthetic resin, provides excellent gloss & film clarity; formaldehyde free.
AQUABOND 1050	Suitable for Chroma Art Paper / Foil Laminates; Chroma Art Paper / PET Film; Chroma Art Paper/ METPET, Foil / Glossy Paper / Foil Laminates.	Suitable for food packaging; Designed for low moisture content at substrate to use waterborne synthetic resin, provides excellent gloss & film clarity; formaldehyde free.
AQUABOND 1040	Suitable for Chroma Art Paper / Foil Laminates; Chroma Art Paper / PET Film; Foil / Glossy Paper / Foil Laminates	Economic grade; Suitable for food packaging; low odor, ready to use waterborne synthetic resin, provides excellent gloss & film clarity; formaldehyde free.
STRAW BOND WB 1038	Suitable for paper straw where good water resistance is required with a good wet tack.	Food grade; Suitable for paper straw use for drinking soft drinks, cold coffee etc.
AQUABOND TAPE ADHESIVE	Suitable for BOPP films, for making BOPP Tapes & colored BOPP Tapes.	Pressure sensitive adhesive; For BOPP Tapes with good tack, high sheer strength, good peel strength, excellent gloss & film clarity; Formaldehyde Free.
AQUABOND COLD SEAL ADHESIVE	Suitable for Metalise PET / Metalise PET for cold sealing	Food Grade; Suitable for MET PET/ MET PET for cold sealing at chocolate wrappers.
HOLOBOND AQUEOUS ADHESIVE	Suitable for Release MET PET	Suitable for food packaging; low odor ready to use waterborne synthetic resin, provides excellent gloss, good adhesion & release properties.

Product Name	Applicable substrates	Application / USP
AQUABOND 1047	Suitable for CTPET/ CTPET, Peelable & releasable adhesive	Suitable for food packaging; low odor ready to use waterborne synthetic resin, provides excellent gloss, peelable & releasable properties.

4. POLYUTHERANE BINDERS & RESINS

Product Name	Product Code	Application / USP
FLEXITHANE PUR-G041	2FG-YB-PUR-58	Specifically designed for Gravure Reverse lamination inks
PLASTITHANE PUR-FL544	2FG-YB-PUR-62	Suitable for CI Flexo surface Nitrocellulose/PU (NC/PU) Inks, also effective as an adhesion promoter for vinyl inks
PLASTITHANE-FL550	2FG-YB-PUR-64	A practical replacement for Ethylene Vinyl Acetate (EVA) resin in Vinyl Inks
GTHANE PUR F040	2FG-YB-PUR-44	Ideal for full PU formulations in CI Flexo reverse lamination applications
GTHANE PUR F030	2FG-YB-PUR-47	Suitable for CI Flexo color inks for reverse lamination
GTHANE PUR F080	2FG-YB-PUR-45	Suitable for HD Flexo applications
FLEXITHANE PUR-G032	2FG-YB-PUR-55	For shrink sleeve application
FLEXITHANE PUR-G006	2FG-YB-PUR-63	Elastomeric PU for Gravure Cross-linking Application
FLEXITHANE PUR-G001	2FG-YB-PUR-048	Gravure lamination ink – NT/ Excellent Printability

Product Name	Product Code	Application / USP
PLASTITHANE PUR-FL004	2FG-YB-PUR-056	Flexo-gravure reverse ink
FLEXITHANE PUR-G009	2FG-YB-PUR-009	Gravure lamination ink - NTNK
FLEXITHANE PUR-G015	2FG-YB-PUR-015	Gravure- Excellent Adhesion to various substrates
FLEXITHANE PUR-G023	2FG-YB-PUR-051	Gravure- High Performance/ Boil- Retort and Extrusion application for NTNK ink formulation (Color inks)
FLEXITHANE PUR-G025	2FG-YB-PUR-053	Suitable for excellent extrusion lamination performance for gravure or Flexo application
FLEXITHANE PUR-G024	2FG-YB-PUR-052	Gravure- NT/ NTNK with Low viscosity/ High-strength ink application
FLEXITHANE PUR-G026	2FG-YB-PUR-023	Suitable for excellent extrusion lamination performance for gravure or Flexo application
PLASTITHANE-FL551	2FG-YB-PUR-065	Flexo/Gravure surface - better adhesion
FLEXITHANE PUR- G022	2FG-YB-PUR-074	Gravure- High Performance/ Boil- Retort and Extrusion application for NTNK ink formulation (Color inks)

5. UV & WATER BASED COATINGS

Segment	Product Name	Product Code	Application / USP
Gravure	HEXACOAT HIGH GLOSS UV OPM HS	2FG- HXCTA001	Medium speed printing and good chemical resistance on Paper & metallized paper, foil paper.

Segment	Product Name	Product Code	Application / USP
Gravure	HEXACOAT LMLO HIGH GLOSS UV OPM	2FG- HXJCTA002	Medium speed Printing & Better Adhesion
Offset/ Gravure	HEXACOAT HIGH GLOSS /HIGH SCUFF UV OPM-AC OPM-AC	2FG- HXCTA003	Low cost & odor free coating for genera; purpose
Gravure	HEXACOAT HIGH GLSS UV OPM HS	2FG- HXCTA004	Medium speed printing and good chemical resistance on Paper & metallized paper, foil paper.
Gravure/ Offset	HEXACOAT UV OPM TEXTURE	2FG- HXCTA005	Effect Gold LED OPV
Gravure	HEXACOAT LED LMLO OPM CO-I	2FG- HXCTA006	Medium Speed Printing and good chemical resistance on paper.
Gravure	HEXACOAT LED LMLO OPM CO-II	2FG- HXCTA007	Low viscosity, Medium Speed Printing & Good Chemical resistance.
Offset	HEXACOAT MP UV OPM	2FG- HXCTA008	High printing speed and provides high scuff
Offset	HEXACOAT HIGH GLOSS/HIGH SLIP UV OPM	2FG- HXCTA009	Medium performance offset gloss coating
Offset	HEXACOAT HIGH GLOSS SPOT UV OPM	2FG- HXCTA010	Effect Spot UV
Gravure/ Roller Coater	HEXACOAT UV OPM PVC PROFILE	2FG- HXCTA011	PVC PROFILE
Gravure	HEXACOAT HIGH PERFORMANCE OPM	2FG- HXCTA012	CAST CURE FILMS APPLICATION

WATER BASED COATINGS

Segment	Product Name	Product Code	Application / USP
Gravure	AQUEOUS METALLIZE PRIMER	2FG-PMA524	Can be used as a metalized primer, Offset applications primer/ ink
Gravure	AQUEOUS WEXT OPM	2FG-AQAWET003	Can be used for better extrusion bond
Gravure	AQUEOUS FOIL WASH	2FG-PMA397	Can be used better adhesion in foil paper
Gravure	AQUAWET TOB PRIMER	2FG-AQAWET004	Provides High Gloss & High Scuff Properties
Gravure	AQUAWET RELEASE COATING CTA	2FG-AQAWET002	Can be used for better release property for metallization

6. POLYOLS

S.No	Product Name	Product Code	Viscosity	Hydroxyl Value	Functionality	Acid Value	Application / USP
1	GREENPOL	2FG-PMA359	-	1255 ± 25 mg KOH/g	3	-	Speciality polyol additives for lamination adhesive application
2	GREENPOL1	2FG-PMA360	235 ± 15 cPs @ 25°C	230 ± 20 mg KOH/g	3	-	Speciality polyethers for lamination adhesive application
3	GREENPOL2	2FG-PMA361	370 ± 30 cP @ 25°C	55 ± 2 mg KOH/g	2	< 0.1 mg KOH/g	Speciality polyethers for lamination adhesive application
4	GREENPOL3	2FG-PMA362	300–360 cP @ 25°C	370–396 mg KOH/g	3	< 0.05 mg KOH/g	Speciality polyethers for lamination adhesive application

S.No	Product Name	Product Code	Viscosity	Hydroxyl Value	Functionality	Acid Value	Application / USP
5	GREENPOL4	2FG-PMA363	175 ± 20 cPs @ 25°C	110 ± 5 mg KOH/g	2	< 0.1 mg KOH/g	Speciality polyethers for lamination adhesive application
6	GREENPOL5	2FG-PMA364	70 ± 7 cPs @ 25°C	265 ± 15 mg KOH/g	2	-	Speciality polyethers for lamination adhesive application
7	LAMIPOL	2FG-PMA365	850 ± 100 cPs @ 25°C	160.0 ± 5.0 mg KOH/g	3	< 2.0 mg KOH/g	Speciality polyol additives for lamination adhesive application
8	LAMIPOL1	2FG-PMA366	-	-	-	-	Speciality polyol additives for lamination adhesive application
9	LAMIPOL2	2FG-PMA379	800 ± 50 mPas @ 70°C	56 ± 3 mg KOH/g	2	< 1.0 mg KOH/g	Speciality polyesters for lamination adhesive application
10	LAMIPOL3	2FG-PMA380	6000 ± 1000 mPas @ 50°C	66 ± 2 mg KOH/g	2	< 1.0 mg KOH/g	Speciality polyesters for lamination adhesive application
11	LAMIPOL4	2FG-PMA378	1950 ± 50 cPs @ 25°C	134 ± 2 mg KOH/g	2	< 2.0 mg KOH/g	Speciality polyesters for lamination adhesive application
12	LAMIPOL5	2FG-PMA381	7000 mPas @ 25°C	112 mg KOH/g	2	< 2.0 mg KOH/g	Speciality polyesters for lamination adhesive application
13	LAMIPOL6	2FG-PMA382	1950 ± 50 mPas @ 25°C	115 ± 5 mg KOH/g	2.14	< 2.0 mg KOH/g	Speciality polyesters for lamination adhesive application
14	LAMIPOL7	2FG-PMA383	5000 mPas @ 60°C	135 ± 5 mg KOH/g	2.14	< 3.0 mg KOH/g	Speciality polyesters for lamination adhesive application
15	LAMIPOL8	2FG-PMA384	3000 mPas @ 75°C	142 mg KOH/g	2.18	< 3.0 mg KOH/g	Speciality polyesters for lamination adhesive application
16	LAMIPOL9	2FG-PMA526	2400±300 mPas @ 50°C	56 ± 3 mg KOH/g	2	< 1.5 mg KOH/g	Speciality polyesters for PU Ink binder application

S.No	Product Name	Product Code	Viscosity	Hydroxyl Value	Functionality	Acid Value	Application / USP
17	LAMIPOL10	2FG-PMA527	2700±250 mPas @ 80°C	28 ± 2 mg KOH/g	2	< 1.5 mg KOH/g	Speciality polyesters for PU Ink binder application
18	LAMIPOL11	2FG-PMA528	4000±500 mPas @ 25°C	56 ± 3 mg KOH/g	2	< 0.5 mg KOH/g	Speciality polyesters for PU Ink binder application
19	LAMIPOL12	2FG-PMA529	2700±250 mPas @ 80°C	28 ± 2 mg KOH/g	2	< 1.5 mg KOH/g	Speciality polyesters for PU Ink binder application

7. SPECIAL ADDITIVES

Product Name	Product Code	Application / USP
SARJOADD-ABA	2FG-SRAD001	A specialized anti-blocking agent
SARJOADD -HDA	2FG-SRAD010	A pigment dispersing agent
SARJOADD -RSA	2FG-SRAD002	An additive to enhance ink re-solubility and printability
SARJOADD-030	2FG-SRAD004	Antiblocking & Matting Agent
SARJOADD-972	2FG-SRAD005	Antiblocking & Antisettling Agent
TECHNOLOGY INK 2510	2FG-YATB2510	Adhesion Promoter Additive

8. SPECIAL APPLICATIONS PRODUCTS

GLS Speciality chemicals design customized products including, primers, over print varnishes, heat seal lacquers, additive solutions, coatings and so on, to accomplish the special characteristics for any particular applications.

Primers & Adhesive for Hot Stamping Process



STAMP-LIFT RELEASE COATING CO-I (PMA516)

Excellent release tendency during transfer metallization process, using a hot stamping adhesive.

STAMP-COAT PROTECTIVE COATING CO-I (PMA517)

Provides protection to the release coating of primer during metallization process.

STAMP SEAL ADHESIVE COATING CO-I (PMA518)

A heat-activated adhesive layer used in hot stamping foil to transfer an image or design to a substrate.



Product for Extrusion Lamination

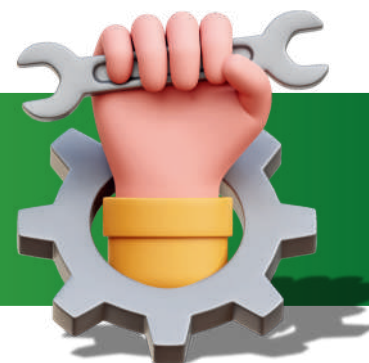
AQUA PLUS WEXT OPM

General purpose primer which is suitable for PE extrusion lamination.

2K GOLD LACQUER FOR METALLIZATION (PMA064)

Provides excellent adhesion on metallized films and performance towards vacuum metallization & EVA extrusion lamination.

Primers for Metallization Process



H.G LACQUER HOLO (2FG-PMA240)

Solvent Base High Performance H.G lacquer holo for reverse printing by gravure process followed by holographic embossed on lacquer.

AQUAWET RELEASE COATING CTA (2FG-AQAWET002)

A high performance water-based Coating for release application during metallization process.

DEMETALLIZATION COATING (2FG-PMA060)

Direct de-metallization from metallized substrates.



Water Based Heat Seal Lacquers

AQUABOND ALUSEAL LACQUER (2FG-PMA310)

AQUABOND ALUSEAL LACQUER (2FG-PMA310) is a superior, low COF water-based heat seal coating, expertly formulated for enhanced performance on laminated paper structures.

ECOGUARD OGR COATING - (2FG-PMA510)

Water based HSL provides excellent grease resistance.

HSL for PET & PVC Substrates



HEAT SEAL LACQUER 25 (2FG-PMA053) & HEAT SEAL LAC- QUER 30 (2FG-PMA054)

Provides excellent heat-sealing property on PVC substrates.

HEAT SEAL LACQUER PET (2FG-PMA063)

Provides excellent heat-sealing property on PET substrates.

OTHER SPECIAL APPLICATIONS PRODUCTS

1

PETSTER AQUEOUS COATING

PETSTER AQUEOUS COATING (2FG-PMA500) is a specially formulated co-polyester resin, designed for incorporation into in-line protective coating formulations. It provides excellent adhesion on polyester films, enhancing post-print and lamination performance

2

NITROFOIL MET PET MATT PRIMER CTA

High Performance Non-Toluene Non-Ketonic (NTNK) surface printing Matt over print varnish for creating matt effect

3

SOFT TOUCH COATING (2FG-PMA373)

Soft touch coating is high performance water-based coating to provide soft touch & matt effect of desire substrate.

4

AQUEOUS FOIL WASH (2FG-PMA397)

High-performance foil wash which provides excellent adhesion when used with NC base & WB base inks on foil substrates.

5

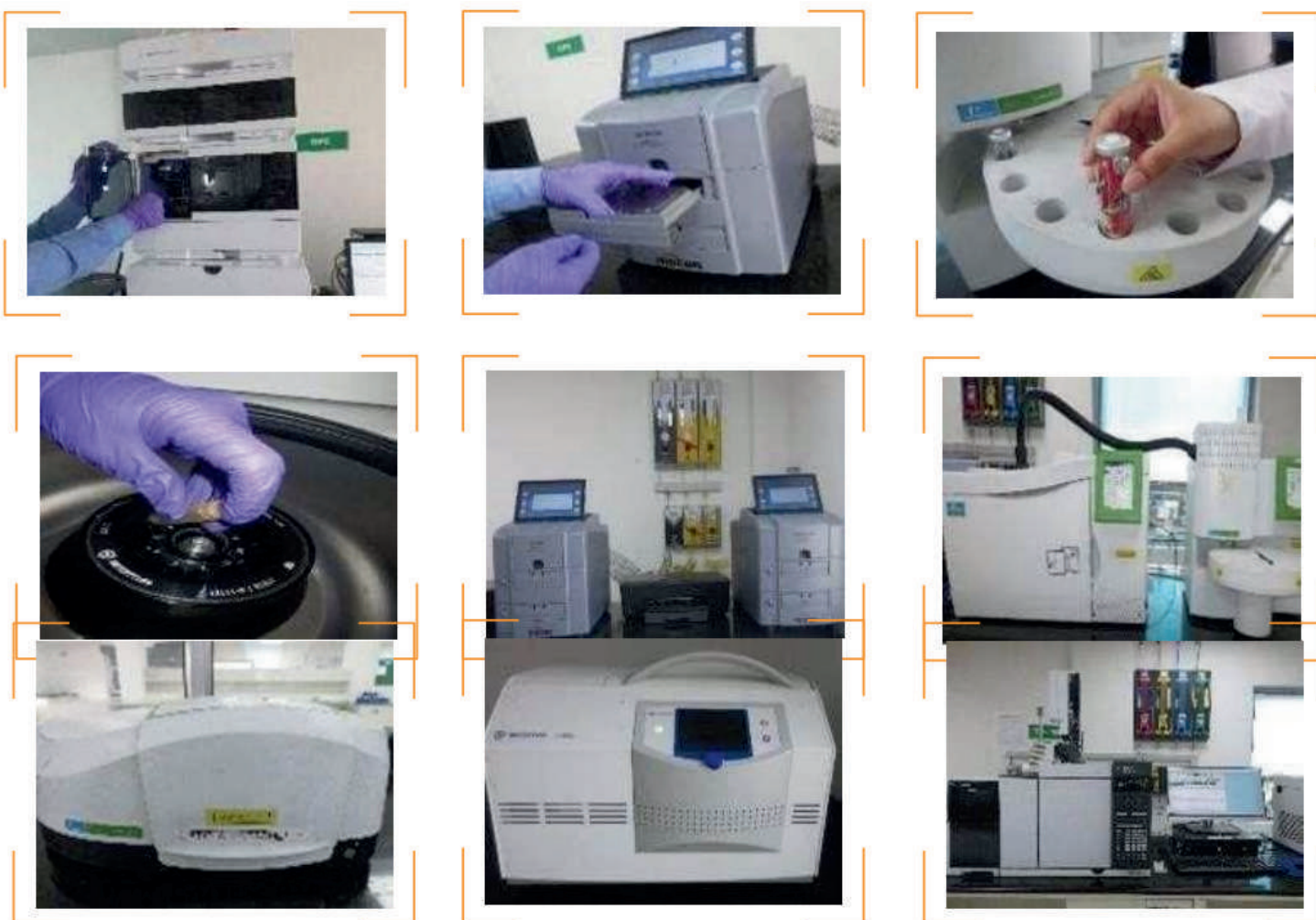
HIGH GLOSS PAPER COATING (2FG-PMA497)

HIGH GLOSS PAPER COATING (2FG-PMA497) is a single-component overprint medium (OPM) specifically formulated to impart a high-gloss finish on paper substrates.

CERTIFICATIONS



ANALYTICAL FACILITIES



GLS Speciality Chemicals believes in empowering its customers with Innovation, Sustainability & Globalization. GLS chemicals provides sustainable and tailored offerings for its customers to upraise the customer experience. Innovations need to be a part of the culture to address the transformational needs of the businesses. GLS chemicals believes in finding products for our customers instead of finding customers for our products.

This ideology has helped GLS Speciality chemicals grow its footprints in the domestic and the global market. GLS chemicals aims to mark its presence worldwide as a successful business partner for its customers.



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