

Varnishes

Aqueous Varnishes

- **AquaShield 304 / 304 HV** : High-gloss finish
- **AquaShield 315** : High scuff resistant
- **AquaShield 306** : Neutral / Satin finish
- **AquaShield 305** : Matt finish
- **AquaShield 301** : Primer coat for board
- **AquaShield 307** : Primer coat for Met Pet
- **AquaShield 308** : Blister coat for board
- **AquaShield 322** : Ink duct high-gloss, scuff resistant OPV

UV Varnishes

- **UltraShield 402** : Roller coater UV high-gloss Over Print Varnish
- **UltraShield 405** : Roller coater UV matt Over Print Varnish
- **UltraShield 422** : Ink duct UV high-gloss Over Print Varnish
- **UltraShield 425** : Ink duct UV matt Over Print Varnish
- **UltraShield 432** : Screen UV high-gloss Over Print Varnish
- **UltraShield 435** : Screen UV matt Over Print Varnish

TechNova's Global Distribution Network



Tips to enhance Productivity

- ◆ *Switch from using solvent-based to water-based coatings to reduce VOC output and cost.*
- ◆ *Change from standard founts to specially formulated founts that help minimize start-up wastage and enhance productivity.*
- ◆ *Use of water washable deglazers will reduce VOC output and effluent load, and will also reduce costs by eliminating post wash-up step.*

Corporate Profile

TechNova is one of the world's largest manufacturers of analog & digital imaging products with the widest range of solutions for the print, publishing, packaging, textile, engineering, signage and photo industry.

Highlights

- World's only manufacturer of full range of Offset Plates : Violet, Thermal, Analog PS, UV CtP, Inkjet & Laser
- One of the world's largest manufacturer of Graphic Art Chemistry
- Widest Portfolio of Inkjet & Laser Media
- Winner of the prestigious GATF InterTech Technology Award
- One-Stop-Shop for Total Imaging Solutions
- Pioneer of the "Go Green" revolution in the Indian Printing Industry
- Partnering the printing industry in the Indian sub-continent since 4 decades
- Markets products to over 50 countries through its overseas offices and distribution network



Our objectives are :

- Our Planet is our most vital resource. We must do all we can to preserve it. We at TechNova have embarked on a "Go Green" mission.
- To promote Green awareness within TechNova, with our stakeholders and within the Indian printing industry.
- To develop, manufacture and supply eco-friendly Green products and services that have the least impact on the environment.
- To comply with, and go beyond, all applicable legal requirements with regard to the environment, & help our customers achieve the same.

To assist the printing industry to "Go Green", TechNova has introduced a bouquet of Green products

- Chem-free Digital Plates
- Process-free Inkjet CtP Solutions
- Alcohol-free & Alcohol-reducing Founts
- Aromatic-free Press Washes
- VOC-free Cleaners & Deglazers

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graphic art chemistry

Graphic Art Chemistry

TechNova is recognized as one of the world's largest manufacturers of Graphic Arts Chemistry.

TechNova manufactures a range of next generation chemicals developed by a dedicated in-house R&D team. In addition to its own range of products, TechNova also manufactures products based on technology from Agfa and Arets Graphics, Belgium.

Synergies between TechNova and Agfa's plate & chemistry business units result in chemistry formulations that enhance the performance and lowers the cost-in-use of analog as well as CtP metal and polyester plates.

For over three decades TechNova has enjoyed over 75% market share in the Indian sub-continent and significant market share in selected export markets.

Moving along with the latest trends, TechNova continues to introduce products that offer greater safety for the users and the environment; together with approval from FOGRA and key hardware manufacturers.

To retain its leadership position and meet the rapidly growing demand for high-quality factory-made chemical formulations, TechNova has built a truly world-class chemical factory with distinctive features that match the best of its kind anywhere in the world.



Fountain Solutions

- **Akron Range** : A range of high-end sheet-fed fountain solutions including VOC-free, FOGRA approved & alcohol reducing products.
- **CrownJewel** : A range of hi-tech, CtP compatible, customized fountain solutions for various dampening systems of high-speed cold-set web presses.
- **TotalCare** : A range of premium, CtP compatible fountain solutions including VOC-free, built-in dryers & Total Calcium Control enabled products.
- **AlcoNil** : Unique single step alcohol-eliminating fountain solution for sheet-fed presses.
- **Fount 405** : Premium, corrosion inhibiting universal fountain solution, ideal for UV application.
- **Fount 605** : Low foaming fount solution for sheet-fed presses with high-speed circulation systems.
- **NovaFount Nectar** : Environment-friendly, general-purpose universal fountain solution.
- **NovaFount Prestige** : General purpose fountain solution concentrate for heat-set web presses.
- **NovaFount Presto** : Low-foaming, highly buffered fountain solution for conventional sheet-fed presses using hard water.
- **UltraFount** : Value-for-money general-purpose fountain solution for sheet-fed offset presses with conventional dampening system.

Fountain Solution Additives

- **NovaNol** : A range of guaranteed high-purity lithographic alcohol and formulated alcohol equivalents.
- **AquaTone RO** : A concentrate conditioning additive for soft water and / or water treated with Reverse Osmosis, used for fountain solution preparation.

Washes for Conventional Inks

- **Artemas Wash** : A range of FOGRA & Baldwin approved, aromatic-free water miscible press washes including a VOC-free wash.
- **NovaWash Premium** : High-quality, plate-safe, water miscible blanket and roller wash.
- **AmberWash WM** : CtP plate-safe, low odour, aromatic-free medium drying water miscible blanket and roller wash.
- **NovaWash Universal Plus** : General-purpose medium drying blanket and roller wash.
- **Dampakleen** : Emulsion cleaner for manual / automatic washing of cloth-covered dampening rollers.

Washes for UV Inks

- **UV Uniwash*** : Universal wash-up solution for all printing processes using UV curing inks and / or varnishes.
- **UV Autowash*** : Wash-up solution for offset presses using automated washing system for UV curing inks and / or varnishes.
- **UV Autowash RF*** : Labelling and regulation free, low odour wash-up solution for offset presses using UV curing ink and / or varnish.
- **UV Flexowash*** : Wash-up solution for Flexo presses using UV curing ink and / or varnish.
- **NovaWash DP** : AIII standard, dual-purpose combi-wash, for both UV & conventional inks.

* Technology courtesy Arets Graphics, Belgium.

RollerCare Range

- **DeepKleen Shampoo** : Ready-to-use deep cleansing and conditioning roller shampoo.
- **GlazeKleen** : Ready-to-use quick action roller deglazing paste.
- **GlazeKleen Aqua** : Unique water washable roller deglazing paste.
- **ColourKleen Paste** : Ready-to-use paste for critical colour changes.
- **CalKleen** : Ready-to-use calcium remover gel.
- **LubriKleen** : Ready-to-use lubrication gel for dry running units.

BlanketCare Range

- **Blanket Vitaliser** : Supreme rejuvenator, deglazer and instant conditioner for offset rubber blankets.
- **Blanket Refresh** : End-of-the-day conditioner for offset rubber blankets.
- **Blanket Reviver** : General-purpose reviving solution for offset rubber blankets.
- **Revivarol Deglazer** : Powerful liquid deglazer and conditioner for blanket maintenance.
- **Blanket Saver** : Rapid action repairing gel for blanket punctures and low spots.

SystemCare Range

- **MetKleen** : Premium cleaner for metering rollers, compatible with UV & conventional inks.
- **CylKleen** : Premium corrosion inhibited cleaner for impression (back) cylinders.
- **Fount System Cleaner** : Concentrate cleaner for preventive maintenance of the fount circulation system.

Plate Cleaners & Gums

- **InstaKleen UV** : Unique unbaked plate-safe UV plate cleaner.
- **InstaKleen CtP** : Premium, white emulsion CtP plate safe cleaner and conditioner.
- **InstaKleen HD** : Premium, heavy-duty, emulsion cleaner and scum remover for baked analog & digital plates.
- **PlateCleaner GP** : Premium, general-purpose, emulsion plate cleaner and conditioner.
- **Washout + Storage Gum** : Dual-purpose emulsion plate cleaner and preserving solution.
- **NovaKeepGum** : Storage gum for long-term protection.
- **NovaUniGum** : High-quality, general-purpose plate finisher and desensitiser.
- **NovaAraGum** : General-purpose natural Gum Arabic solution for all plate types.
- **Unifin** : Premium plate finisher and desensitizer for all plate types. Recommended for use in processor.
- **Thermotect** : A patented baking solution for presensitised positive plates.

Specialty Products

- **CtP Processor Cleaner** : Cleaner for all CtP Thermal & Photopolymer plate processors.
- **NovaTone Eco Processor Cleaner** : Cleaner for CtP Thermal & positive analog plate processors.
- **AniKleen** : A range of Anilox roller cleaners for various applications.
- **LamiKleen** : A range of cleaners for hot melt PU adhesives.

Tips to control Dampening System

- ◆ Always use a freshly calibrated conductivity meter to control fount concentrate dilution.
- ◆ Maintain the dosing equipment and measure the concentration of alcohol with a hydrometer. Regularly calibrate your dosing equipment.
- ◆ Once set, ensure that the temperature of the dampening solution does not vary by more than $\pm 1.5^{\circ}\text{C}$.
- ◆ Clean the temperature sensors regularly.
- ◆ Always use compatible cleaning solvents to enhance roller life.
- ◆ Ensure the dampening system is regularly cleaned and filters are replaced as part of routine maintenance to avoid print quality variations.

Tips to 'Go Green'

- ◆ Solvents dry more slowly as the flash point increases. Solvents with a quoted flashpoint of 100°C or lower must be considered as VOC. Reduce your VOC output and cost by using slower drying press cleaning and maintenance solvents, as they require less volume per wash up.
- ◆ Use automated washing systems wherever possible as they use much less solvent per cleaning cycle.
- ◆ Reduce the amount of eco-toxic aromatic hydrocarbon solvents that you use. Aliphatic solvents are much less toxic to plants and animals and in the event of an accidental spillage, they are quickly broken down by micro-organisms as they are readily biodegradable.

Tips to enhance Roller & Blanket life

- ◆ Using modern washes that comprise only aliphatic hydrocarbons, increases the productive life of the blankets and helps to keep the rollers at optimum shore hardness.
- ◆ Blankets should be cleaned first with a solvent wash and finally with clean water, to ensure thorough cleaning of ink, gum glaze and lint.
- ◆ Glaze is insoluble in hydrocarbon solvents and requires treatment with a stronger solvent usually referred to as a deglazer. Occasional treatment with deglazers will prevent glaze build-up on rollers and blankets.
- ◆ Calcium glaze is not easily removed by regular deglazers, and calcium glaze build-up can lead to ink stripping problems. To avoid this, use speciality calcium deglazers.

Tips to reduce IPA

- ◆ Use hydrometer for measuring alcohol percentage and conductivity meter for measuring fount percentage.
- ◆ Ensure that all measuring equipments are clean & calibrated before collecting the data required to control your dampening parameters.
- ◆ Start by recording conductivity and alcohol percentage in your dampening trays, identify and eliminate the root cause for significant fluctuations. To achieve minimum levels of IPA in your dampening system, you need the fount and IPA dosages to be as stable as possible. The most common causes for undue fluctuations are dirty or poorly maintained dosing equipment.
- ◆ Ensure that your rollers are all within the manufacturers' original specifications with regards to hardness. Rollers may become harder over time and hardened rollers will not work with low levels of alcohol.