

Product Information



NGA22 Special Tube Lacquer

NGA22 is a glossy UV cured roller coating lacquer for the over varnishing of pre-treated polyolefin tubes printed with suitable offset inks.

Important:

Stir well before every use. Full intercoat adhesion may not fully develop until 24 hours after coating and compatibility of combined systems must be evaluated under actual production conditions before commencing a production run.

Applications

NGA22 is formulated to over-varnish compatible offset printed inks which have no wax or silicone content.

Note: Some pigments used in offset inks can bleed or change colour in contact with UV curing varnish and although NGA22 is formulated to minimise this effect, care should be taken to avoid inks of this type. Where possible, inks with 'resistant' pigments should be used.

Pre-production tests

Always test the application fully before beginning a production run, as supposedly similar plastics can vary between different manufacturers and also between different batches. Certain plastics may be impregnated with lubricants and anti-static additives which, like migrating plasticisers, may impair adhesion even a considerable time after printing.

Embrittlement can occur when used with certain plastics, so care should be taken to ensure full compatibility before starting a production run.

Pre-treatment

Polyethylene must be flame or corona discharge pre-treated in order to improve the wetting properties and adhesion of the varnish. A treatment level of 52-58 dynes/cm is recommended.

Coating

NGA22 lacquer is designed for coating on conventional roller-coating machines. The lacquer must be fully stirred before use and is designed to be used straight from the container. Viscosity can be adjusted by gently heating the varnish in the range of 20-35°C.

The recommended film weight is 4gsm, although a film weight in the range of 3-8gsm can be used.

Curing

A rapid UV cure is achieved with suitable medium pressure mercury vapour lamps or lamps without electrodes. Cure speed is dependant on film thickness as well as the number, type and condition of the lamps. Chemical reaction is initiated by UV radiation and will continue for some time after being exposed to UV light (post cure). In certain circumstances, this reaction can adversely affect the ultimate adhesion and flexibility.

Metallic Foil Blocking

NGA22 can be in-line hot foil blocked with suitable blocking foils. However, the foil should be carefully selected for this application.

Product Resistance

NGA22 should resist attack by most products likely to be packed in a printed container.

Resistance of prints immediately after cure is excellent but for best results, it is advisable to allow at least 6 hours after curing to achieve optimum resistance.

NGA22 varnish is not recommended for applications where outdoor exposure of prints is a possibility.

Product Range

NGA22 Special Tube Lacquer
Available in 5kg containers

Storage

- Containers should be tightly closed immediately after use. At the end of a long print run surplus varnish should be disposed of.
- NGA22 should not be stored in direct sunlight or near warm pipes and should be kept away from peroxides.
- For maximum shelf-life, storage temperatures should be between 10°C and 25°C.

When stored in a cool environment, the lacquer is expected to have a shelf-life of approximately 12 months from date of manufacture.

Fujifilm Sericol UK Limited

- Has certification to the International Environmental Standard, ISO 14001.
- Is committed to minimising the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.
- Research & development team work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety and Handling

NGA22 Special Tube Lacquer:

- Has a flashpoint greater than 55°C and is therefore not classified as a "dangerous substance" under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).
- For optimum shelf life, all products should be stored at moderate temperatures, between 5°C and 30°C. Storage outside of these temperatures may lead to deterioration in the performance of the product.

Comprehensive information on the safety and handling of NGA22 Special Tube Lacquer is given in the appropriate FUJIFILM Sericol Safety Data Sheet, available on request.

Environmental Information

NGA22 Special Tube Lacquer:

- Does not contain ozone depleting chemicals as described in the Montreal Convention.
- Is formulated free from aromatic hydrocarbons.
- Is free of any volatile solvent and can therefore be considered to have less impact on the environment, when compared with solvent-based products.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason, our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this sheet out of date and users are requested to ensure that they follow current recommendations

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