

SunSys

SunSys coating products deliver resistance to moisture, oil and grease, heat, friction and industrial chemicals.

Common characteristics of SunSys resistance coatings:

SunSys Resistance	Product Description	Typical Applications
Chemical	Resistance to industrial chemicals.	Salt bags and potassium nitrate
Friction	Controlled slip for processing through packaging lines or rub/scrath resistance.	Bags or boxes on a pallet
Grease/Oil	Prevents pentration of industrial grease and oils.	Motor oil spiral wound container
Heat/Cold	Resistance to extreme temeratures.	Deep freeze packaging or heat seal-able packaging eg biscuits, cheese
Lamination replacement	Replacing a plastic layer in a packaging laminate eg going from 2 layers of film to one. Downguaging. Resistant to physical contact.	Horticultural sacks
Product	Resistance to any product containing an ingredient that may affect the packaging/inks.	French fry containers, butter, shampoo, fat from fried chicken buckets, rice and a wide variety of ingredients
Release	Non stick, release (Release lacquer releases from the cold seal to stop blocking in a reel).	Adhesive labels, tapes and coldseal release for chocolate packaging
Water	Resistance to water penetration.	Paper sacks pet food, protection of ink and substrates



SunFuse

SunFuse functional coatings address the need of adhesion applications ranging from priming, heat and cold seal to lamination.

Common characteristics of SunFuse coatings:

SunFuse Adhesion	Product Description	Typical Applications
Coldseal	Cohesive that seals packaging by sticking to itself for heat sensitive applications.	Chocolate bars, ice cream and confectionery
Heatseal	Coating that seals to itself or another substrate when heat is applied.	Yoghurt lids, biscuit wrappers and tobacco outer wrap
Primers	Coatings that are applied to difficult to adhere surfaces such as aluminium to allow further printing or coating.	Confectionery and snacks
Adhesives	Coatings that are applied to one surface of a 2 or more layer structure, and under pressure and curing, laminate surfaces together.	Coffee pack, film beer labels, refrigerated food and cheese
Metallising primers	Allow surfaces of paper or films to accept vacuum metallisation and/or protect metallisation.	Paper beer labels and gift wrap
Extrusion primers	Applied to surfaces to assist with coating a molten plastic film, for lamination structures.	Crisp packs



Although the information presented here is believed to be accurate, Sun Chemical makes no representation or warranty to the accuracy, completeness or reliability of the information. All recommendations and suggestions are made without guarantee, since the conditions of use are beyond our control. Suitability for specific purposes or conditions of use should be determined by the user by testing for suitability for intended purposes under particular conditions of use.

In no event shall Sun Chemical be liable for damages of any nature arising out of the use or reliance upon the information. Sun Chemical makes no representation or warranty with respect to the products, and disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose. Sun Chemical expressly disclaims that the use of any products referenced herein, either alone or in combination with other materials, shall be free of rightful claim of a ny third party including a claim of infringement. The observance of all legal regulations and patents is the responsibility of the user.

SC PA 0798 T0.5 1405 GB ©2014 Sun Chemical.
Sun Chemical is a registered trademark.

SunChemical Europe
Wexham Springs
Framewood Road
Slough, SL3 6PJ
United Kingdom
Tel +44 (0) 203 139 0000
www.sunchemical.com

North American Inks (NAI)
135 W. Lake St.
Northlake
IL 60164
USA
Tel +1 708 236 3798

SunChemical®
a member of the DIC group



Who helps you increase
product shelf life, reduce
packaging weight and
deliver sustainable packaging?

We do.
With innovative functional coatings.

working for you.



SunChemical®
a member of the DIC group



Develop the next generation of sustainable packaging design with Sun Chemical Functional Coatings

Sun Chemical functional coatings are available under the trade names of SunSys, SunBar®, SunFuse and SunSpec. They serve as ready-to-use performance coatings or building blocks that can be formulated for many performance attributes such as:

- Providing resistance to temperature (hot or cold), chemical, grease, product or water
- Act as barrier to UV light, aroma/odour, oxygen, carbon dioxide, moisture vapour or migration
- Perform as release, lamination replacement or anti-mist agent
- Facilitate adhesion in packaging structures
- Be able to come in direct contact with food.

By bringing together a winning team of knowledgeable people and innovative technologies, Sun Chemical has developed a wide range of functional coating products to help brand owners and packaging converters actualise next generation of sustainable packaging design.

A winning team of knowledgeable people and innovative technologies.



SunBar

SunBar family of coatings provide a range of barriers against oxygen, CO2, UV light, odour and migration. In addition, these coatings improve product shelf life, recyclability and product quality. Deploying these coatings for the correct applications can contribute in improving convertor yield.

Common characteristics of SunBar barrier coatings:

SunBar Barriers	Product Description	Typical Applications
Moisture Vapour	Stops moisture vapour either escaping from or penetrating a packaged product and shortening shelf life.	Laundry powder, potato crisps and bread
Oxygen	Prevents O2 either escaping from or penetrating a packaged product and shortening shelf life.	Fresh meat, poultry and dairy
CO2	Prevents CO2 either escaping from or penetrating a packaged product and shortening shelf life.	Poultry, milk, cola, beer and carbonated drinks
UV Light	Stops UV light penetrating packaging and affecting the packaged product colour or sensory properties and thereby shortening shelf life.	Processed meat and pizza
Aroma/Odour	Prevents aromas escaping from a packaged product or malodours penetrating packaging maintaining the quality and freshness.	Coffee, wine and toiletries
Migration	Stops migration of chemicals from the environment or packaging into the food, eg. mineral oil, keeping the food safe to consume.	Rice and pasta packaging



SunSpec

SunSpec coatings are for special applications for example those requiring direct food contact, low odour and anti-mist properties.

Common characteristics of SunSpec coatings:

SunSpec Specal Functions	Product Description	Typical Applications
Low odour	For areas where any material in a coating may contaminate a packaged product that is sensitive to absorbing odours or requires low odour.	Chocolate or for pet food where dogs are sensitive to odours
Food contact	Coatings that are in direct contact with food, so inside of a pack.	Sandwich box, a dog food sack, deep freeze pack and confectionery
Laser	Reacts with laser light by changing colour or ablating to produce images or type. Used for bar coding or date codes.	Chocolate, beer labels and folding cartons
Anti-mist	Stops water forming a film on the inside of packaging (through condensation) reducing the transparency of the pack and clarity of the product.	Salad packs, lettuce, fresh and processed meat



Functionalising packaging structures with Sun Chemical coatings

Sun Chemical is more than an ink company; it also offers a wide range of functional coatings for a variety of substrates, applications and printing processes.

Get in touch with your local Sun Chemical representative with proven experience in wide range of applications to discuss your requirements and let us help you deliver next generation of sustainable packaging.

Light Weighting

Oxygen Barrier Coatings could help remove a barrier film or foil together with one layer of adhesive facilitating lighter weight packaging.

