



# Customer

## chemistry

At Incorez, our sole purpose is to make a **real difference** to the performance of our customers products.

So what makes us different?



# We're focused on your needs

The secret to our success is not just about great custom chemistry, but great customer chemistry too.





## Better relationships help us build better products

Customer relationships drive everything we do. By working with our partners, we constantly improve our products and continue to break new ground – innovating, tailoring and leading the industry.

# By working together

## We constantly innovate

Meeting the demands of customers with the development of innovative technology has been part of the Incorez philosophy for over 30 years.

## We improve performance

By providing tailor-made solutions that are designed to improve upon current technology.

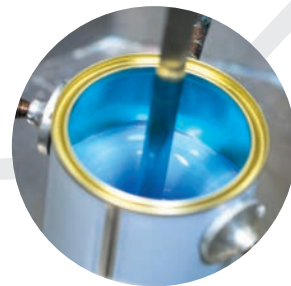
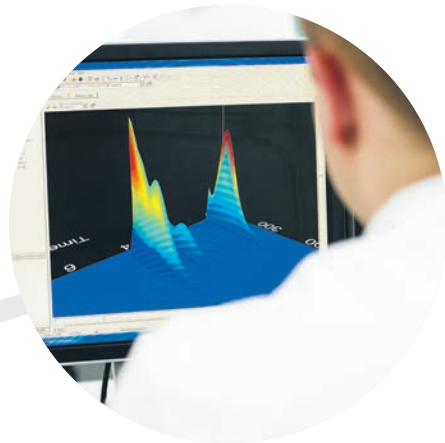
## We break new ground

Our modern research and development facilities have been equipped to enable a forward looking approach to product development.

## Legislation is always changing the landscape

Since customers need to react quickly to changes in legislation and new developments in the industry, we recognise that a flexible and responsive attitude is essential.

## So we react together





# Global scale

Taking care of  
tiny details on a



We have an international reach and supply our products through agents and distributors to 24 countries around the globe.

ITALY | AUSTRALIA | CZECH REPUBLIC  
MALAYSIA | NETHE RLANDS | VIETNAM  
KOREA | SOUTH AF RICA | CHINA | USA  
PORTUGAL | GERM ANY | HONG KONG  
SWITZERLAND | IN DIA | BELGIUM | UK  
SPAIN | TURKEY | P OLAND | THAILAND  
SINGAPORE | FRAN CE | NEW ZEALAND

# Adhesives Sealants Coatings

Innovative products are the  
lifeblood of our business

We're specialists in oxazolidines, aldimines,  
polyurethane dispersions and waterborne epoxy  
curing agents, supplying to producers of coatings,  
adhesives and sealants all over the world.



# We've taken protective coatings to new heights

Oxazolidines



Our high performance Incozol® additives bring exceptional levels of performance to polyurethane coatings, adhesives and sealants.

These advanced oxazolidines speed up curing and prevent the generation of CO<sub>2</sub>. This eliminates bubbling on application to help preserve aesthetics and minimise pinhole defects, giving you a better finish and improved film integrity.

Our moisture triggered chemistry enables curing in all kinds of temperature and humidity conditions resulting in tougher, more durable films. This makes the Incozol® range suitable for even the most challenging of applications.

# Oxazolidi nes

## Incozol 2

### Features & Benefits:

- ✔ Low toxicity, mono-oxazolidine moisture scavenger and drying agent
- ✔ Fast reacting - hydrolyses on exposure to moisture
- ✔ Low colour and low viscosity
- ✔ Eliminates CO<sub>2</sub> bubbles and pinholes in two-component systems
- ✔ Minimises downglossing and hazing under high humidity application conditions
- ✔ Fully reacts into urethane polymer matrix
- ✔ Confers tolerance to repeated opening of containers

### Applications:

- ✔ Removal of water from polyols in two component polyurethanes
- ✔ Removal of water from solvents, plasticisers and pigment pastes
- ✔ Prevents gassing and gelling in one-component systems
- ✔ Humidity control during application of sprayed polyurethanes

## Incozol LV

### Features & Benefits:

- ✔ Low-viscosity bis-oxazolidine reactive diluent. Hydrolyses on exposure to moisture, yielding a reactive amine and hydroxyl functional cross-linking agent
- ✔ Enables the production of low VOC polyurethane coatings without carbon dioxide gassing
- ✔ Can be used as bi- or tetra-functional curing agent
- ✔ Confers tolerance to repeated opening of containers

### Applications:

- ✔ Reactive diluent for one and two component polyurethanes
- ✔ Low VOC content paints and varnishes
- ✔ Elastomers
- ✔ High-Build Paints

## Incozol 4

### Features & Benefits:

- ✔ A bis-oxazolidine latent hardener that hydrolyses on exposure to moisture, yielding a reactive amine and hydroxyl functional cross-linking agent
- ✔ Enables the production of high-build coatings without carbon dioxide gassing
- ✔ Can be used as bi- or tetra functional latent hardener
- ✔ Confers tolerance to repeated opening of containers

### Applications:

- ✔ Roof Coatings
- ✔ Balcony Coatings
- ✔ High-build moisture cure coatings and varnishes
- ✔ Sealants & Adhesives
- ✔ Accelerates the cure of low NCO containing prepolymers

## Incozol EH

### Features & Benefits:

- ✔ A bis-oxazolidine latent hardener for use in 1K polyurethane coatings, adhesives, sealants and elastomers
- ✔ Can be stored at sub-zero temperatures (down to -15°C) without signs of crystallisation, making handling and storage easier and more convenient than other types of bis-oxazolidine
- ✔ Excellent in-can stability for 1K aliphatic and aromatic PU systems
- ✔ Reduced odour - the reduced volatility of the aldehyde leaving group (2-ethyl hexanal) in this product results in a less pungent odour than bis-oxazolidines based on isobutyraldehyde. Useful for low odour 1K PU formulations

### Applications:

- ✔ Flooring & Balcony Systems
- ✔ Roof Coatings
- ✔ Sealants
- ✔ Increases cure speed of 1K PU systems without the need for metal catalysts
- ✔ Aromatic 1K PU systems where in-can stability may be an issue

For better  
sealants and  
adhesives,  
stick with us

Aldimines



Incozol BH is our aldimine latent curing agent for joint sealants, elastic bonding adhesives and general sealing and bonding compounds.

It's particularly useful in high-build polyurethane systems as it hydrolyses on exposure to moisture to give you a reactive amine crosslinker and benzaldehyde. That means faster through-cure and no carbon dioxide. Latent curing agents also speed up the cure of low NCO containing prepolymers.

Incozol BH has been designed for one component PU systems and is suitable for use with both aromatic and aliphatic prepolymers. It has excellent in-can stability with aromatic prepolymers, making it a better choice for 1K aromatic systems than standard latent curing agents.

## Incozol BH

### Features & Benefits:

- ✔ Aldimine latent curing agent that hydrolyses on exposure to moisture, yielding a reactive amine crosslinker and benzaldehyde
- ✔ Enables bubble free curing at elevated temperature & humidity levels
- ✔ Suitable for use with both aromatic and aliphatic prepolymers
- ✔ Very low viscosity
- ✔ Very good storage stability with aromatic isocyanates
- ✔ Low temperature crystallisation stability (down to -20°C)
- ✔ Excellent shelf-life

### Applications:

- ✔ Flexible Joint Sealants
- ✔ Elastic Bonding Adhesives
- ✔ General Sealing & Bonding Compounds

# Aldimine S



**WE DON'T  
BELIEVE ONE  
SOLUTION  
FITS ALL**

*Polyurethane Dispersions*

Our Dispurez® polyurethane dispersions are non-hazardous and ideal for all types of rigid plastic and flexible film applications.

Whether used as PU dispersions or combined with acrylic, they produce hard, crystalline polyurethane coatings with comparable properties to equivalent coatings based on pyrrolidone solvents.

Our service is extremely flexible and Dispurez® PU dispersions can be tailored to provide outstanding performance in very specific applications. By adapting our chemistry to suit you, we can provide polymers for all kinds of plastic substrates from rigid uPVC to flexible PET.

# Polyurethane Dispersions

## Dispurez 101

### Features & Benefits:

- ✔ High Tg, hard, crystalline waterborne polyurethane dispersion with excellent chemical resistance
- ✔ Suitable for clear protective top coats and lacquers

### Applications:

- ✔ Tough coatings for rigid plastics including uPVC/ABS/HIPS

## Dispurez 101A

### Features & Benefits:

- ✔ Hard polyurethane acrylic dispersion designed for excellent pigment compatibility
- ✔ Ideal for use in tough coatings with good durability

### Applications:

- ✔ Rigid plastics including uPVC/ABS/HIPS

## Dispurez 102

### Features & Benefits:

- ✔ Flexible, toughened, self-crosslinking polyurethane dispersion with excellent optical clarity and excellent chemical and block resistance

### Applications:

- ✔ Flexible films with a tough finish for PET, plasticised PVC, pre-treated PP/PE

## Dispurez 201

### Features & Benefits:

- ✔ VOC free polyurethane dispersion that is soft and flexible but with good impact resistance and low temperature flexibility

### Applications:

- ✔ Flexible films for PET, pre-treated PP/PE
- ✔ Suitable for indirect food contact in packaging/laminating applications


## Dispurez 103

### Features & Benefits:

- ✔ Tough and flexible waterborne polyurethane dispersion with excellent hydrolysis and chemical resistance
- ✔ Excellent adhesion to wide variety of plastics (ABS, Polycarbonate, PET, etc.)
- ✔ Excellent weathering resistance

### Applications:

- ✔ Durable coating for interior and exterior automotive plastic substrates
- ✔ Flexible and tough roof and waterproofing membranes



# Great bonds with our secret agents

Waterborne Epoxy Curing Agents

Incorez® waterborne epoxy curing agents are ideally suited to the formulation of high performance coatings. Like all epoxies, they have excellent adhesion to a wide variety of substrates.

With physical characteristics such as excellent abrasion and impact resistance, together with high chemical, water and solvent resistance, Incorez® curing agents are the perfect choice for industrial and decorative concrete floor paints.

Because they're waterborne, low VOC and low odour, they're much more user-friendly too.

## Amirez 142

### Features & Benefits:

- ✔ A reactive emulsified waterborne curing agent for either liquid epoxy or emulsified epoxy resins
- ✔ The product will undergo a chemical reaction with the epoxy resin to yield a tough, durable coating
- ✔ APEO and formaldehyde free
- ✔ Good stability and epoxy compatibility
- ✔ Good gloss and gloss retention
- ✔ Complete compatibility with cement and calcium salts
- ✔ Good chemical resistance
- ✔ Visible end of pot life
- ✔ Excellent aqueous dilution stability

### Applications:

- ✔ Floor and Wall Coatings
- ✔ High Gloss Coatings
- ✔ Clear Lacquers

## Amirez 148/010

### Features & Benefits:

- ✔ A waterborne reactive polyamine adduct with long pot life and low viscosity
- ✔ It has complete compatibility with cement and calcium salts
- ✔ Low colour & low viscosity
- ✔ Zero VOC and good freeze / thaw stability
- ✔ Particularly well suited for high temperature climates

### Applications:

- ✔ Floor and Wall Paints
- ✔ Hygiene Coatings
- ✔ Epoxy Cement Mortars
- ✔ Concrete Primers
- ✔ Gloss Paints
- ✔ Coatings for Green Concrete

## Amirez 148/024

### Features & Benefits:

- ✔ A waterborne reactive polyamine adduct with low viscosity and fast cure
- ✔ Excellent gloss retention and chemical resistance

### Applications:

- ✔ Floor and Wall Paints
- ✔ Anti-Graffiti Coatings
- ✔ Anti-Corrosion Paints
- ✔ Concrete Primers
- ✔ Coatings for Green Concrete
- ✔ Gloss Paints

## Amirez 148/055

### Features & Benefits:

- ✔ APEO, formaldehyde and solvent free
- ✔ Good gloss and gloss retention
- ✔ Excellent hardness and cure development
- ✔ Compatible with all resin types
- ✔ Low colour

### Applications:

- ✔ High gloss topcoats & intermediate coats
- ✔ Floor paints
- ✔ Wall paints
- ✔ Concrete Primers

# Waterborne Epoxy Curing Agents





The suits have changed.

We started out in 1986. Back then, we were known as Industrial Copolymers Ltd. We changed our name in 2009 and have been expanding ever since. From our home in Preston, England we've grown to become a leading manufacturer of polyurethane and epoxy technology.

Our approach hasn't.

Since 2009 we've been proud to be part of the Sika group, working in partnership with an outstanding international company with an exceptional reputation in the construction industry.



# Made in Preston, UK

Our manufacturing plant contains a versatile range of computerised stainless steel and glass-lined reactors capable of processes from distillation and separation to dispersion and high shear mixing.



## Our labs. Your fitting rooms.

Our chemists work closely with the customers chemists to help solve technical problems, often developing products specifically designed to suit their individual needs.



# We like to listen

Work with us and find out how our custom chemistry can give you tailored products that continually take performance to new levels.



If you need to get in touch with Incorez about any future projects feel free to contact us.

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