

RESPONSIBLY  
MADE IN  
THE UK



“IKO Polymeric hasn't just  
**raised the standard**  
in polymeric technology... it's raised the standard  
in responsible manufacturing.”



*Anthony Carlyle  
Managing Director,  
IKO Polymeric*

**I'm very proud of all the products  
in our range.**

But I'm even more proud of the factory that produces them and the team of dedicated people who every day strive for perfection across all aspects of our business, from the blending of raw materials right through to fulfilling the needs of our network of customers across the UK, mainland Europe and beyond.

At IKO Polymeric we believe in looking at the bigger picture to see how our products not only meet or exceed every performance criteria in use, but how we can make them with minimal effect on our precious environment.

Our Chesterfield facility embodies that philosophy; a major investment that benefits the environment, the local community and British industry as a whole. Our state-of-the-art manufacturing plant in the UK is one of the most efficient in Europe – and we'd like to tell you a little more about it.

Digital tolerance monitoring equipment continually checks specification conformity.



Non conforming product is granulated and reprocessed.



Laboratory testing products for tensile strength, tear, high temperature stability, low temperature flexibility, joint, shear and peel.



In today's building industry, there's more emphasis than ever on environmental awareness and sustainability. But IKO Polymeric's plant in Chesterfield is about much more than simply being green.



The IKO Polymeric, state-of-the-art plant in Chesterfield.

## A factory that benefits all of us

**From the start, our aim was to have a positive impact on every aspect of our manufacturing process - whether it's energy efficiency, waste management or supporting local people.**

That's why we chose Clay Cross, the site of a disused colliery in Chesterfield, investing in an area hard-hit by industrial recession and contributing to the local economy with much-needed employment - including an apprentice programme for young people seeking a career in state-of-the-art engineering.

And by building our plant to meet the standards set by BREEAM - the world's leading design and assessment method for sustainable buildings - we made sure our processes and building infrastructure are amongst the most exacting and efficient around. A fact that's further endorsed through our ISO 14001 Environmental Management standard accreditation.





*A rewinding station removes any non conformities identified by the Vision System.*

## Keeping on top of quality...

As you'd expect with IKO Polymeric, quality is the first priority in any production facility. So we incorporated state-of-the-art extrusion technology, along with automated quality control processes to achieve the ultimate in product consistency, thickness and colour. Combined with physical checks of every batch, every hour by our highly trained operatives, we can be confident that every roll which leaves our factory meets our exacting standards.

Utilising the latest digital technology, 2D bar coding helps us isolate any imperfections during manufacture, so any product which is not perfect can be removed from the production line and the material re-used for incorporation into other IKO products.

And we blend our own polymers to such exacting standards; the system rejects any that aren't 100% perfect.



*Trimming are granulated ready for reprocessing.*

*The Vision System ensures any non conformities are electronically tagged and logged.*

*Manual quality inspection stations ensure accurate matching of product colours to specification.*







## Environmentally, IKO Polymeric has everything covered...

Even more impressive though, is the plant's environmental efficiency. Compared to older traditional double pass technology, IKO Polymeric utilises a highly efficient single pass process, therefore significantly reducing CO<sub>2</sub> emissions throughout the manufacturing cycle. Upon completion, all IKO Polymeric products are packaged in simple transparent polythene wrappers which minimise the use of printing inks and provide ease of disposal on-site.



*Spectraplan SM120 + IKO Solar PV System installed on the Clay Cross plant provides valuable solar energy which is utilised in the production process.*

Absolutely zero waste leaves the plant, with around 8% of product trimmings put back into the process - those that aren't are ground up for re-use as fuel in other selected industries and can be used as the raw material for damp proof courses, or low specification PVC products such as car mats. This means that no manufactured material is ever sent to land fill. In addition, any waste water produced during production can be disposed of as non-hazardous.

Our significant investment in manufacturing is also testament to our environmental commitment. By reducing our reliance on imported raw materials, we can not only manufacture to the highest standards of efficiency but also distribute our products through a international network of distributors, keeping delivery mileage to an absolute minimum at every stage, whilst reducing CO<sub>2</sub> emissions.

**It all adds up to a range of products which offer you ultimate sustainability, as well as many other benefits.**

= ↓ CO<sub>2</sub>



## Products that also set the standard in sustainability...

**Durability alone puts IKO Polymeric products among the most sustainable on the market. For example, in our extensive roofing range all our products are resistant to weathering, chemical oxidation and UV radiation.**

They're ideal for integrating with green roof systems too, providing a waterproof foundation whilst improving a building's acoustic and thermal properties. And when incorporated with the latest PIR insulation technology, the buildings they protect benefit from superior thermal performance and significant reductions in energy usage throughout their lifetime. In addition, the membrane's heat and sunlight reflective surface is effective in reducing heat fluctuations on the roof and therefore in the building as a whole. Combined with thermal insulation, this attribute reduces the need to both cool and heat the building interior, therefore saving valuable energy.

Our manufacturing process also gives you other advantages. For instance, minimal impurities and the materials' superior flexibility and elasticity make it easier and faster to install with better welding characteristics. Our wider sheets also mean fewer joints, and to further improve on-site efficiency we can offer products in bespoke sizes to suit all applications.



*To ensure the finest quality from the outset, raw materials are processed using the latest dry blending technology.*

## Long term benefits for everyone...

By now, you'll have realised that there's a lot more to IKO Polymeric than meets the eye. From the raw materials to manufacturing to installation, we're committed to making our products better for you, for those they protect and for the planet in general.

**That's why IKO Polymeric should be your first choice for polymeric products... now and for the future.**



## Factory facts

- **State-of-the-art** manufacturing facility at Clay Cross in Chesterfield

- Incorporates latest extrusion technology and computer-controlled manufacture

- Operational since 2008

- Produces **millions of m<sup>2</sup>** of polymeric products every year

- **Zero waste** leaves the site

- BS EN ISO 9001 quality and BS EN ISO 14001 environmental accreditation

- BREEAM rated '**Very Good**'



## Our commitment to ongoing quality control

In addition to the exacting quality standards which form an integral part of our manufacturing facility, the following external accreditation organisations continually monitor our quality and production procedures.

- BBA (British Board of Agrément) - 2 visits per year
- BSI (British Standards) - 4 visits per year
- Intron - 2 visits per year
- ATG (Pollution Consultants) - 1 visit per year



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**IKO polymeric**

**Excellence in Polymer Technology**

### IKO Polymeric

Coney Green Business Park  
Coney Green Road  
Clay Cross  
Chesterfield S45 9HZ  
[www.ikogroup.co.uk](http://www.ikogroup.co.uk)

**Member of the  
IKO Group**

### Sales Support

T: 01257 488005  
F: 01246 868035  
E: [sales@ikosingleply.co.uk](mailto:sales@ikosingleply.co.uk)

### Technical Services

T: 01257 488012  
F: 01246 868035  
E: [technical@ikosingleply.co.uk](mailto:technical@ikosingleply.co.uk)

### Northern Ireland

14 Sanda Road  
Whitehouse, Newtownabbey  
County Antrim BT37 9UB

T: 028 9086 7079  
F: 028 9086 7079  
E: [waterproofing@iko-ni.com](mailto:waterproofing@iko-ni.com)  
[www.iko-ni.com](http://www.iko-ni.com)

### Ireland

502 Northwest Business Park  
Ballycoolin  
Dublin 15

T: 01 8855 090  
F: 01 8855 858  
E: [waterproofing@iko.ie](mailto:waterproofing@iko.ie)  
[www.iko.ie](http://www.iko.ie)

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VAT Registration No. GB 643 0358 57 Company Registered in UK No. 2678296.  
Registered Office: Appley Lane North, Appley Bridge, Wigan, Lancashire, WN6 9AB.

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