



Sustainable Mineral Solutions

Industrial Applications

- **Thixotropic thickeners & binders for industrial applications**
- **Filler in polypropylene & mixed-recycled plastics composite**



Alkaolin® is the registered trademark for our powdered alumino silica kaolinite mineral mined & processed by **MINORE™** in UK.

MINORE™ collaborated with a leading independent technology innovation centre to demonstrate and validate the versatility and performance of **Alkaolin®**. The centre has expertise in translating research and ideas into marketable products across diverse sectors in the UK and globally. They helped **MINORE™** to develop prototype formulations and test them for various properties and applications.

We developed a number of formulations to test efficacy within a variety of industrial applications including thixotropic thickeners & binders for industrial applications & fillers & extenders for thermoplastics, rubber, polypropylene, mixed recycled plastic composites

The results showed us that **Alkaolin®** can provide thixotropic behaviour and viscosity control for a wide variety of industrial applications, notably resin & adhesive sectors. It can also enhance the mechanical properties of polypropylene and mixed recycled plastic composites by increasing their stiffness, strength, modulus and impact resistance. The research document also identified applications within cosmetic sector & additives in printing inks.

If you would like to understand more about our research projects, please complete the contact information at the bottom of the page, let us know which project is of interest to you & we would be delighted to share that with you.

1. **Case Study - Industrial Applications - Bulk adhesive and coating formulation**
2. **Case Study - Filler in polypropylene & mixed-recycled plastics composite**

About us

MINORE™ can look back over 70 years reflecting on a remarkable transition from mining & quarrying to producing tailored speciality minerals for a range of industrial sectors. Recognising the increasing demand for sustainable mineral solutions, **MINORE™** established itself on a disused brickworks & ash pit, providing the ideal environment to produce bespoke mineral formulations. Existing mineral & historical deposits & carefully selected discarded inbound materials provide a unique opportunity for **MINORE™** to collaborate with product formulators to provide primary mineral &/or mineral blends for specific requirements.