For WHATEVER life throws at you!
Asahi Guard® offers a high quality barrier

Asahi Guard® is used in hundreds of applications in the food, drinks and packaging industries.

It offers a high quality barrier to water, oil and grease and gives added durability to paper and board.

Asahi Guard® offers added protection

Asahi Guard® offers added protection to interior fabrics without affecting their colour or texture in any way. It gives longer life to upholstery and linen keeping them looking new for longer and extending their life.

Asahi Guard® offers ultimate protection to rugs and carpets keeping them cleaner for longer and making accidental spills easier to remove.
Asahi Guard® has a wide range of uses

Asahi Guard® has a wide range of uses as a weatherproof coating for clothing, shoes and accessories in the sports and leisure world. It is also used extensively on workwear, school uniforms and other clothing for its protective and stain-repellent properties, whether applied to leather, wool, cotton or man-made fibres.

Asahi Guard® knows no boundaries!

Asahi Guard® knows no boundaries! It can be effectively used in many outdoor applications, providing outstanding weatherproof properties wherever required.
Surface Tension - Water and Oil Repellency

Whether an object tends to become wet or not is determined by its surface tension. When a liquid touches a solid surface it is repelled to form beads if the surface tension of the liquid is larger than the surface tension of the solid. The solid becomes wet if its surface tension is larger than the surface tension of the liquid.

Surface Tension of Fabric > Surface Tension of Water

Water

Fabric

Fabric becomes wet because its surface tension is higher than that of water.

Surface Tension of Water > Surface Tension of Oil

Water

Fluororesin

Asahi Guard® has particularly low surface tension.

Surface Tension of Oil > Surface Tension of Fluororesin

Water

Oil

The surface tension of fluororesin is very low, therefore fluororesin repels water and oil.

Surface Tension of Water > Surface Tension of Wax

Water

Wax

Wax is used as a water repellent because of its low surface tension, however wax does not repel oil, since oil has a lower surface tension.

Surface Tension of Wax > Surface Tension of Oil

Water

Oil