

Slip Prevention • Safety Surfacing • DDA Compliance • Slip Assessment Testing

Antislip – The invisible moisture reactive non slip system Page 1

Antislip is a unique liquid applied system that will increase the wet slip resistance of all types of tiled floors including quarry, ceramic, porcelain and natural stone. The system is also equally effective on Terrazzo and power floated concrete.

Antislip can be applied to existing floors with no structural disruption and with minimal down time which means the floor can be walked on immediately following application. The system is environmentally friendly fully biodegradable and contains no dangerous solvents or toxic chemicals. **(Please see Independent European Testing page 3)**. Application can therefore be undertaken with no disturbance to pedestrian movements in or around the building in question

Antislip is virtually invisible and does not work by acid etching or roughening therefore the surface substrate to which it is applied is not damaged. This means that the system can even be applied to highly decorative or high gloss surfaces with only limited effect to the appearance. A surface treated with the Antislip system is also easily cleaned and maintained as the surface has not been roughened or damaged by the application process. **(see page 2 Independent Test – University of Huddersfield)**

Antislip works by penetrating and then bonding into the pores of the substrate below the surface. On contact with moisture the system instantly expands microscopically above the surface to dramatically increase the coefficient of friction or wet slip resistance (SRV) **(See attached literature)**

Because the Antislip system in effect plugs the natural pores of the substrate the system will also reduce bacterial growth. (Acid etching systems actually increase bacterial growth)

The History

Antislip was developed in the United States in the early eighties in collaboration between the US government and the airlines industry. The system was originally developed to stop aeroplanes aquaplaning on wet concrete run- ways. Through further development and re-formulation it was found that the system would also work on natural stone (Marble Granite) and tiles. In the late eighties the commercial manufacturing rights were sold and the Antislip system was marketed across the United States to the commercial sectors.

The system is now manufactured in Holland and distributed throughout Europe by an exclusive network of Independent Distributors. Surefoot Systems UK Ltd was appointed exclusive distributors for the Antislip system in 2002 and now distributes the system throughout the United Kingdom and France.

Antislip System - Independent Testing

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The Antislip system has been tested over the last 10 years by numerous independent UK and European organisations including:

2003 - United Kingdom Health & Safety Executive

It is not the policy of the UK HSE to recommend or approve any product or system. This organisation will however for an agreed fee undertake independent testing and provide a fully documented report for individual companies and organisations.

In 2003 a national building contractor appointed the UK HSE to independently test the Antislip system on tiles that were specified for a large shopping centre. The tests were undertaken using guidelines set down by the United Kingdom Slip Resistance Group. The slip resistance of tiles both untreated and treated with Antislip was measured using a Pendulum Slip Test machine. Once again the results showed a dramatic increase in the wet slip resistance of the tiles treated taking the tiles from a high risk slip category to low risk.

2005 – University Of Huddersfield

In April 2005 the Antislip system was tested by Huddersfield University. The universities Centre for Precision Technologies+was given the brief to establish in technical terms how Antislip increases the coefficient of friction of wet surfaces and prove that the system does not work by acid etching or by damaging the surface profile.

Tests were undertaken using a highly polished Porcelain tile with 50% of the surface area treated with Antislip. The results concluded that the increase in coefficient of friction was achieved by a change in the surface profile when in contact with moisture. The results also found that the surface was not damaged or substantially etched.

A full report including test results is available on request.

2006 - London Tube-lines

In January 2006 London Tube-lines part of the London underground rail network commissioned independent testing of quarry tiles treated with the Antislip system by 4 Rail Services Ltd. The tests were carried out using a Pendulum Slip Test machine.

The tests showed a dramatic increase in the wet slip resistance of the tiles from an untreated slip resistance value of typically 28 to a treated value of 44.

A copy of this report (4RS – SF – R051281R120226) is available with the permission of 4 Rail Services Ltd

1997 - TNO Holland

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TNO Holland is one of the largest independent testing laboratories in Europe. In October 1997 this organisation was appointed to test the effectiveness of the Antislip system.

The results which have been published in report TNO 97-BT-RM352-02 show quite categorically that the Antislip system has a dramatic effect on the surface of ceramic floor tiles by physically increasing the coefficient of friction of the surface of the tile.

Test figures were recorded for shoes with leather soles, rubber soles and crepe soles. Also silastic (bare feet) was tested. In all cases with the exception of crepe soles the increased safety factor was very high. Because the coefficient of friction between a ceramic floor tile and crepe soled shoe is very high the increased effects of the Antislip system could not be diagnosed.

A copy of the TNO report is available on request.

2008 – Notox Holland

In March 2008 the Antislip system was tested by Notox which is one of the largest independent toxicology testing laboratories in Europe. Tests were conducted to assess the **Oral, Dermal and Inhalatory toxicity** of the Antislip system.

The testing was in compliance with The Organisation for Economic Co Operation and Development (OECD) Good Laboratory Practice Guidelines (1997) the testing also conformed with:

*The United States Food & Drug Administration Good laboratory Practice Regulations
The united States Environmental Protection Agency Laboratory Practice regulations*

In Summary the tests concluded that the Antislip system is not considered toxic in terms of dermal (Skin) contact or by Oral (ingestion) contact or by inhalation.

In accordance with EC classification and labelling requirements for dangerous substances and preparations (Council Directive 67/548/EEC) the Antislip system has no obligatory labelling requirements for Oral, Dermal or Inhalatory toxicity.

A copy of the full report is available on request