

ULTRA FLOOR®

Manufactured exclusively for Instarmac® by
forbo eurocol

Stick **it** 543

HIGH TEMPERATURE, PRESSURE SENSITIVE LVT ADHESIVE

TECHNICAL DATASHEET

- **Very Low Emission, Emission EC1^{PLUS}**
- **High temperature resistance useful in areas of direct sunlight**
- **High shear resistance to minimise shrinkage of floorcoverings**
- **High bond strength when cured, hard set**
- **Place floorcovering into wet adhesive, no waiting time**
- **Suitable for use with Underfloor Heating Systems**



10 kg

DESCRIPTION

ULTRAFLOOR STICK IT 543 is a pressure sensitive, water based, acrylic polymer dispersion and is used for bonding dimensionally stable Luxury Vinyl Tiles (LVT), PVC sheets, planks, and tiles in interior floorcovering installations. ULTRAFLOOR STICK IT 543 is specifically suited for use in high temperature installations and areas of direct sunlight such as conservatories and glazed shop fronts. ULTRAFLOOR STICK IT 543 has superior shear resistance to minimise floorcovering shrinkage under heated conditions and offers excellent dimensional stability. Being a pressure sensitive adhesive, the bond is formed simply by application of pressure to marry the adhesive, applied to the subfloor, with the floorcovering. It also has excellent plasticiser migration resistance. Ideal for use with Underfloor Heating Systems. ULTRAFLOOR STICK IT 543 is very low emission and odour neutral.

USES

ULTRAFLOOR STICK IT 543 is suitable for all LVT installations as well as PVC sheets, planks, and tiles. Suitable for pressure sensitive installations and for high temperature locations up to a maximum surface temperature of 50°C. In the few installations where conditions may be above 50°C, we advise the use of a suitable Polyurethane adhesive.

CONFORMANCE:

- GEV- EMICODE, EC1^{PLUS} - Very Low Emission Classification.

SUBSTRATES:

ULTRAFLOOR STICK IT 543 is suitable for use on dry, structurally sound floors including concrete, sand/cement, cementitious underlays and securely fixed and stable plywood floors. Chipboard and hardboard floors can accept the adhesive however consideration should be given to the suitability of the floorcovering being installed as to whether the floor needs over-boarding with Plywood to stabilise. The substrate must be pressure and tension resistant.

PREPARATION:

All cementitious subfloors should be strong and stable with good tensile and compressive strength. Any weak layers in the subfloor and old material residues must be thoroughly and completely removed by mechanical means. Subfloors should be clean and dry, free from surface laitance, grease, dirt and other loose contaminants.

All subfloors must contain an effective damp proof membrane or when absent consideration should be given to the use of a surface damp proof membrane to ensure the floor remains below 75% relative humidity following installation of any new floorcoverings.

Priming substrates is not normally required as long as thorough preparation is carried out, however, if the subfloor is highly absorbent it may cause rapid drying of the adhesive by suction and reduce adhesion strength to the floorcovering. In such instances it would be advisable to prime with an even coat of ULTRAFLOOR MSP Primer diluted 1:3 by volume with clean, cold water. This will maintain the curing properties of the adhesive and ensure coverages. Exception would be Calcium Sulphate / Anhydrite floors which need to be completely

dry, free from grease stains, dirt, dust, surface laitance then primed with ULTRAFLOOR MSP Primer and, allowing to cure.

Before applying ULTRAFLOOR STICK IT 543, if installing on to a fully impervious subfloor, apply a minimum 3mm layer of cementitious levelling compound and allow to cure before applying ULTRAFLOOR STICK IT 543. All ULTRAFLOOR Levelling Compounds are compatible with ULTRAFLOOR STICK IT 543, please see www.instarmac.co.uk for leveller choice per specific installations. Additionally, if the subfloor is uneven, this can be rectified by the use of a levelling compound from the above website and allowing to cure before applying adhesive.

FLOORCOVERING INSTALLATION GUIDANCE:

Floorcoverings should be installed in accordance with manufacturers instructions and in-line with the requirements of British Standard Code of Practice BS5325: Installation of Textile floorcoverings and British Standard Code of Practice BS8203: Installation of Resilient Floorcoverings where appropriate. Subfloor condition and suitability should also be considered to the relevant sections of British Standard BS8204: Screeds, Bases and in-situ floorings.

Floor coverings should be allowed to acclimatise to the expected room temperature of use, before laying. Floorcovering should be relaxed and lay flat before installation begins. Where floorcoverings are not dimensionally stable, please consider the use of Stick it 640 in place of Stick it 543.

APPLICATION:

Apply ULTRAFLOOR STICK IT 543 to the prepared floor using the following trowels.

- Use an A2 serrated adhesive trowel to apply the adhesive to the subfloor. Using a lambswool roller which has been pre-wetted with adhesive, immediately roll the trowelled adhesive to obtain a uniform and smooth finish. This will reduce trowel marks mirroring through the vinyl and will also maximise contact with floorcovering. Allow adhesive to dry to a tackifilm before installing the floorcovering.

Please note, floorcoverings in sheets, planks, strips, or tiles can be applied directly onto the wet, semi-moist or dry adhesive dependant on the grab required, the more air exposure the stronger the initial grab. These methods become more relevant on vertical surfaces when applying skirting and coving and also in order to preventing lateral slide on LVT.

NB: In installations where high temperatures prevail as described above, it is recommended that the floorcovering is applied directly into the wet adhesive to ensure strongest full bond is obtained keeping in mind the temperature limitations.

Drying times depend on room temperature, relative humidity and the porosity of the subfloor. After placement into the adhesive, firmly rub the floorcovering from the centre outwards to expel any trapped air, then use a weighted roller (typically 68kg) to firmly roll the covering to ensure firm contact with the adhesive. Repeat rolling process after approximately 30 to 45 minutes to further enhance the finish.



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Sheet end joints and longitudinal joints should be pressed firmly with the roller and repeated as above. Remove any extruded adhesive from the joints immediately while still fresh and receptive, using clean water and a cloth/sponge.

Welding the seams should be done once **ULTRAFLOOR STICK IT 543** has dried, but no sooner than 48 to 72 hrs after the installation is completed. Keep area thoroughly ventilated while material is curing.

If underfloor heating (UFH) has been installed within the new flooring it is important to follow a protocol of commissioning in order to prevent compromising the new installation. Turn off the UFH once installed and commissioned. Ensure the UFH is switched off for a minimum period of 24hrs before installing the adhesive and floorcovering. Do not turn back on until at least 24hrs after the floorcovering is installed. Starting at room temperature, raise the water temperature via the thermostat in steps of maximum water increase by 5°C per day.

CLEANING OF TOOLS

All tools should be cleaned immediately after use with clean water.



TECHNICAL DATA	
Product Description:	Water Based Acrylic Dispersion.
Consistency:	Liquid. Light blue in Colour
Product Density	1.04 kg/litre
Unit Size (Bucket):	10 kg (9.62 litres)
Application Tool:	A2 serrated adhesive trowel
Coverage per sqm:	A2 Trowel 100 - 150 g/sqm
Coverage per Unit:	A2 Trowel 67 - 100 sqm/unit
Apply Floor Covering:	Immediately*
Full Cure:	24hrs*
Room Temps:	18 - 23°C
Material & Subfloor Temps:	15 - 20°C
Room Relative Humidity:	40 - 80%

*The listed values are dependent on the porosity of the subfloor, temperature and relative humidity of the room.

STORAGE

Store in cool dry conditions. Temps 5°C min to 30°C max. Protect from frost.

SHELF LIFE:

Approximately 12 months in unopened containers.

HEALTH, SAFETY & ENVIRONMENT

This product is not classified as hazardous. However it is good practise to follow safe handling when using all products. Avoid splashes to eye and skin by using appropriate PPE protection while preparing, mixing and applying products. Always wash hands before consuming food and make sure that materials are kept safely out of reach of children and animals. A full Material Safety Data Sheet (SDS) for this product is available from www.instarmac.co.uk.

DISPOSAL

Please dispose of packaging and waste responsibly and in accordance with local authority requirements. Once cured and dry the product is inert and does not require special disposal. Uncured material should be disposed of accordingly to the local authority guidelines (see latest SDS from www.instarmac.co.uk).

QUALITY ASSURANCE

All Instarmac products are manufactured in a plant whose quality management system is certified/registered as being in conformity with BS EN ISO 9001, ISO 14001 and ISO 45001. Our products are guaranteed against defective materials and manufacture and will be replaced or money refunded if the goods do not comply with our promotional literature. We cannot however accept responsibility arising from application or use of our products because we have no direct or continuous control over where and how they are used. All products are sold to our conditions of sales, copies of which may be obtained upon request.

PRODUCT CONTAINS

Methylchloroisothiazolinone, Methylisothiazolinone (3:1) and Benzisothiazolinone.

May produce an allergic reaction.

Note: To ensure you are using the most up to date information for this product, please see our website www.instarmac.co.uk to obtain the latest TDS and SDS information.

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