

Iso-Shield

Iso-Shield is designed for all types of floor tiling installations such as sound timber substrates and concrete floors. Providing superior protection against water migration and substrate cracks, it is ultra-thin with a thickness of under 1mm.

Iso-Shield has optimum connection to tile laying materials due to its dual sided fleece lamination. Manufactured from waterproof string fabric sheathing, Iso-Shield provides decoupling and tension reduction between top coverings of tiles, slabs and natural stone and the subfloor in indoor applications.

Product Description

Movement in substrates underneath is a common problem. This movement causes tension on the tiles leading to them cracking. Iso-Shield provides a layer between the substrate and tiled covering to contain the movement caused by expansion and contraction and stops it from transferring to the tiles.

Please Note: While Iso-Shield is an impervious product, to fully waterproof surfaces, it must be used in conjunction with sealing/waterproofing tape to seal joints and corners.

Technical Values

Material - Base	Polypropylene
Material - Inner	Polyester
Colour - Base	Green/Blue
Colour - Fleece	Black
Width	1m
Length	30m
Thickness	0.87mm approx. (≤1mm)
Area Weight	365g/m ²
Service Temperature Range	- 30° c to + 90° c
Certified To	DIN EN ISO 9001 : 2008
Storage Info	Store at room temperature and protect from sunlight and moisture

Note: Due to the methods used in production, the colour of the material or printing may vary from batch to batch.

Product Features:

Tension Reducing De-coupling Matting
Waterproof
Low Structural Build-up
Flexible
High Crack Bridging
Direct Load Removal on Subfloor
High Tear Resistance
Can be used with Underfloor Heating
Resistant to Alkali's and Rot

Physiological Properties:

Iso-Shield is resistant to a wide range of chemicals, rot, fungus and bacteria attacks. It is also impervious to root penetration. Iso-Shield is inert to drinking water.

Disposal & The Environment

Iso-Shield is physiologically harmless. The product contains no hazardous materials. Off-cuts can be disposed of as general building site waste.

Storage

Store in a cool, dry place, out of direct sunlight. Do not store above +30°C.

Application Areas:

Iso-Shield is suitable for use on sound substrates including timber and cracked concrete floors. It must be stuck down using high quality standard flexible tile adhesive. Select an adhesive in accordance with the substrate type. Dukkaboard encourage users to confirm suitability with their own trials before installation. Dukkaboard disavow any liability resulting from use of non-suitable adhesive and resulting damage of any kind.

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Please Note: Technical data represent average values. The technical information and application instructions are based on our experience and present knowledge. However, it is each users own responsibility to make trials with the original substrates in order to verify the suitability of our products for the intended purpose, taking into consideration all application related parameters. Please contact us if you have any further questions. In case of any doubt, please obtain additional information from Dukkaboard.

Physical Properties	DIN	Value
Burst Pressure (max)	Internal	4.3 bar
Breaking Load Longitudinal	DIN EN ISO 527-3	86.6 N / 15mm
Breaking Load Lateral	DIN EN ISO 527-3	58.1 N / 15mm
Extension Break Longitudinal	DIN EN ISO 527-3	97.8%
Extension Break Lateral	DIN EN ISO 527-3	134.1%
Power Absorption at 25% Elasticity Lateral	DIN EN ISO 527-3	2.42 N / mm
Power Absorption at 50% Elasticity Lateral	DIN EN ISO 4892-3	2.88 N / mm
Resistance to Water Pressure (1.5 bar)	DN EN 1928	3.0 bar
UV-Resistance	DN EN ISO 4892-2	500 h
Moisture Vapour Resistance Air Equivalent (sd)	DN EN 1931	85 m
Bonding Strength	DIN EN 1348	→ 0.2 n / mm ² [in dependence of adhesive used]

Chemical Properties		Value
Resistance after storage over 7 days by room temp in following chemical		
Hydrochloric acid 3%	Internal	+
Sulphuric acid 35%	Internal	+
Citric acid 100 g/l	Internal	*
Lactic acid 5% Internal	Internal	+
Potassium hydroxide 3% / 20	Internal	+ / 0
Sodium hypochlorite 0,3 g/ l	Internal	+ / 0
Salt water (20 g/ l Sea water salt)	Internal	+

*VALUE KEY • + = Resistant • 0 = Weakened • - = Non Resistant
Complied the strict requirements for classification according EMICODE emission class EC 1 plus and according French VOC-regulation A+

For technical information, support and more installation guides and videos from the expert team at Dukkaboard, visit www.dukkaboard.com/the-knowledge-network