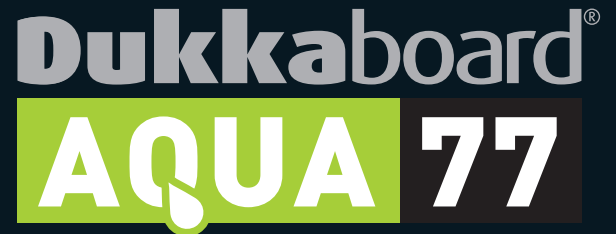


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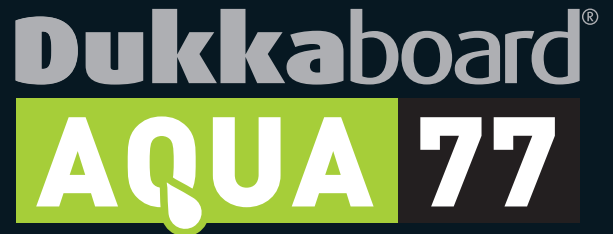


DUKKABOARD AQUA 77

PRO-TILE PRIMER	PRODUCT CHARACTERISTICS
 <p>Dukkaboard AQUA 77 PRO-TILE PRIMER</p> <p>SOLVENT FREE TOTALLY WATERBASE BINDS DUST SUITABLE FOR HEATED SUBSTRATES</p> <p>5KG</p> <p>Dukkaboard AQUA 77 PRO-TILE PRIMER</p> <p>SOLVENT FREE TOTALLY WATERBASE BINDS DUST SUITABLE FOR HEATED SUBSTRATES</p> <p>1KG</p>	<p>SOLVENT FREE</p> <p>BINDS DUST</p> <p>SUITABLE FOR HEATED SUBSTRATES</p>
	<p>PRODUCT USAGE</p> <p>Professional, concentrated water-base isolation product for gypsum and anhydrite substrates before ceramic tiles are laid using cement based adhesives or before paint is applied to walls.</p> <p>Materials</p> <ul style="list-style-type: none">▪ Cement-based and dispersed adhesives▪ Cement or gypsum-based finishing and levelling products and plasters▪ Paints <p>Substrates</p> <ul style="list-style-type: none">▪ Gypsum and cement-based plasters▪ Cement and anhydrite-based screeds▪ Plastered brickwork and plasterboard panels▪ High-density chipboard, cellular concrete▪ Prefabricated concrete and fresh concrete castings▪ Indoor flooring and walls, even in damp areas, and outdoor walls. <p>Do not use</p> <p>On outdoor flooring as waterproofing product for metallic, unstable wood and wet substrates or those subject to moisture rising.</p>
<p>GENERAL PRODUCT DESCRIPTION</p> <p>An eco-friendly, water-based surface isolation product for dry, absorbent mineral, cement, gypsum or anhydrite-based substrates. Single-component, with very low volatile organic compound emissions. Safeguards the health of both operators and the environment.</p> <p>Dukkaboard Aqua 77 Pro-Tile Primer develops an isolating, cohesive film which neutralizes the expansive chemical reaction of gypsum or anhydrite-based substrates in contact with mineral mortars and adhesives. Reduces and regulates the absorption of highly porous substrates.</p>	

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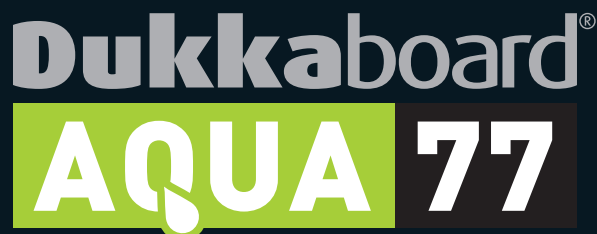
DUKKABOARD AQUA 77

PREPARATION OF SUBSTRATES	INSTRUCTIONS FOR USE																		
<p>The substrate must be compact, smooth and absorbent, free from dust, oil and grease, free from any rising damp, with no loose or flaky parts. Varnishes and paints must be removed completely. The substrate must be stable, non-deformable and with no cracks. Plasters with a gypsum base must present a residual humidity $\leq 1\%$ and screeds with an anhydrite base $\leq 0.5\%$, both of which should be measured with a carbide hygrometer.</p> <p>Preparation Pro-Tile Primer is ready for use and can be applied to walls and floors as a surface isolation product to neutralize the expansive chemical reaction of gypsum or anhydrite-based plasters and screeds in contact with cement based products. Shake the container well before opening in order to redisperse the liquid evenly. For compact, low-absorption substrates of any kind, apply two coats of Pro-Tile Primer diluted 1:1 with water to guarantee the best possible penetration. Dilute Pro-Tile Primer with clean water up to a 1:3 ratio to reduce and regulate the absorption of water or suppress dust in highly porous substrates, to improve the penetration of the priming coat to the substrate. Pour the required quantity of water needed to dilute the product into a bucket, then add Pro-Tile Primer according to the indicated ratio. Mix briefly before use.</p>	<p>Application Apply a fine, uniform film, preferably using a short bristle, synthetic fibre roller or brush. Apply a second coat criss-crossing the direction of the first. The distinct green colour of Pro-Tile Primer allows the user to check immediately if the surface has been fully and evenly covered. Apply several coats to more porous substrates, waiting until the previous coat has dried completely before proceeding with the next. Do not pour the product straight onto the floor; do not allow stagnant Pro-Tile Primer to build up on the surface and check that a surface film does not form.</p> <p>Cleaning Pro-Tile Primer can be removed from tools and other surfaces by washing them with water before the product hardens.</p> <p>Special Notes After applying Pro-Tile Primer and before laying the surface covering, check if the moisture content of the substrate is suitable for the type of covering selected. Applying Pro-Tile Primer to absorbent substrates improves the workability of finishing and levelling products and is a necessity when applying self-levelling products, especially when these are of reduced thickness.</p>																		
TECHNICAL DATA	WARNING																		
<table><tr><td>Appearance</td><td>Green liquid</td></tr><tr><td>Specific weight</td><td>$\approx 0.99 \text{ kg/dm}^3$</td></tr><tr><td>Shelf life</td><td>≈ 12 months in the original packaging</td></tr><tr><td>Packaging containers</td><td>1 / 5 kg</td></tr><tr><td>Viscosity</td><td>$\approx 17.9 \text{ mPa} \cdot \text{s}$, rotor 1 RPM 100 Brookfield method</td></tr><tr><td>pH</td><td>≈ 9.65</td></tr><tr><td>Temperature range for application</td><td>from $+5^\circ\text{C}$ to $+35^\circ\text{C}$</td></tr><tr><td>Coverage</td><td>$\approx 0.15 - 0.25 \text{ kg/m}^2$</td></tr><tr><td>Conformity</td><td>EC 1 GEV-EMICODE Cert. GEV 1230/11.01.02</td></tr></table> <p>Minimum waiting time before laying:</p> <ul style="list-style-type: none">Isolation product for gypsum and anhydrite ≥ 4 hrsRegulation of substrate absorption ≥ 1 hr <p>Maximum waiting time before laying ≤ 24 hrs</p> <p>Dilution ratio:</p> <ul style="list-style-type: none">Isolation product for gypsum and anhydrite - ready-to-use / 1 part Pro-Tile Primer: 1 part waterRegulation of absorption - 1 Pro-Tile Primer: 2-3 parts water <p>Warning protect from frost, avoid direct exposure to sunlight and sources of heat</p> <p><small>Values taken at $+23^\circ\text{C}$, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, ie temperature, ventilation and absorbcency level of the substrate.</small></p>	Appearance	Green liquid	Specific weight	$\approx 0.99 \text{ kg/dm}^3$	Shelf life	≈ 12 months in the original packaging	Packaging containers	1 / 5 kg	Viscosity	$\approx 17.9 \text{ mPa} \cdot \text{s}$, rotor 1 RPM 100 Brookfield method	pH	≈ 9.65	Temperature range for application	from $+5^\circ\text{C}$ to $+35^\circ\text{C}$	Coverage	$\approx 0.15 - 0.25 \text{ kg/m}^2$	Conformity	EC 1 GEV-EMICODE Cert. GEV 1230/11.01.02	<ul style="list-style-type: none">Product for professional useAbide by any standards and national regulationsDo not apply on roughened substrates or substrates which require heavy thicknesses of productIf the product has been washed away or removed mechanically, it will have to be replaced by a further applicationCheck substrate adhesion before overlayingDo not use as a waterproofing productUse a carbide hygrometer to measure and ensure that the humidity of the gypsum is $\leq 1\%$ and of the anhydrite $\leq 0.5\%$ at the moment of laying. Follow the manufacturer's instructions.If necessary, ask for the safety data sheet
Appearance	Green liquid																		
Specific weight	$\approx 0.99 \text{ kg/dm}^3$																		
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DUKKABOARD AQUA 77 PRO-TILE PRIMER

* 1 IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name Dukkaboard Aqua 77 Pro-Tile Primer

Relevant identified uses of the substance or mixture and uses advised against

Application of the substance Etch primer, wash primer

Details of the supplier of the safety data sheet

Manufacturer / supplier Dukkaboard
Kimberley Business Park, Blackness Lane
Keston, Kent, BR2 6HL
Telephone 08701 271 300

Informing department Product Safety Department

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void.

Information concerning particular hazards for human and environment The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

Label elements

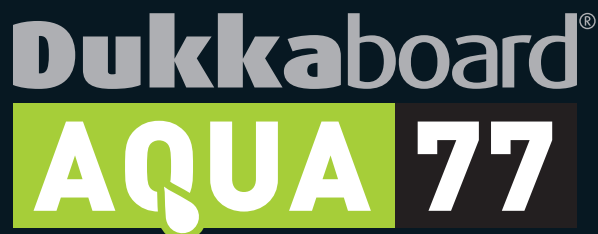
Labelling according to EU guidelines Observe the normal safety regulations when handling chemicals. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

Special labelling of certain preparations Safety data sheet available for professional user on request.

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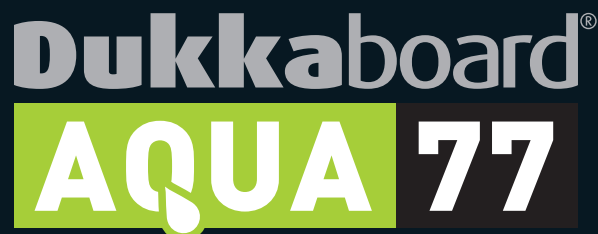
DUKKABOARD AQUA 77 PRO-TILE PRIMER

2 HAZARDS IDENTIFICATION (CONT)	
Other hazards	
Results of PBT and vPvB assessment	
PBT	Not applicable.
vPvB	Not applicable.
* 3 COMPOSITION/INFORMATION ON INGREDIENTS	
Description	Mixture of the substances listed below with harmless additions.
Dangerous components	Void.
Additional information	For the wording of the listed risk phrases refer to section 16.
* 4 FIRST AID MEASURES	
Description of first aid measures	
General information	No special measures required.
After inhalation	Supply fresh air; consult doctor in case of symptoms.
After skin contact	The product is not skin irritating.
After eye contact	Rinse opened eye for several minutes under running water.
After swallowing	Induce vomiting and call for medical help.
Information for doctor	
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	No further relevant information available.

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DUKKABOARD AQUA 77 PRO-TILE PRIMER

* 5 FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam

Special hazards arising from the substance or mixture

No further relevant information available.

Advice for firefighters

Protective equipment

No special measures required.

* 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Ensure adequate ventilation.

Environmental precautions

Do not allow to enter drainage system, surface or ground water.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

No dangerous materials are released. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

* 7 HANDLING AND STORAGE

Handling

Precautions for safe handling

No special measures required.

Information about protection against explosions and fires

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage

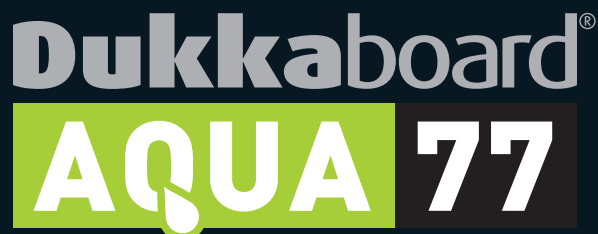
Requirements to be met by storerooms and containers

No special requirements.

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* 7 HANDLING AND STORAGE

Information about storage in one common storage facility	Store away from foodstuffs.
Further information about storage conditions	Protect from frost. Store container in a well ventilated position.
Specific end use(s)	No further relevant information available.

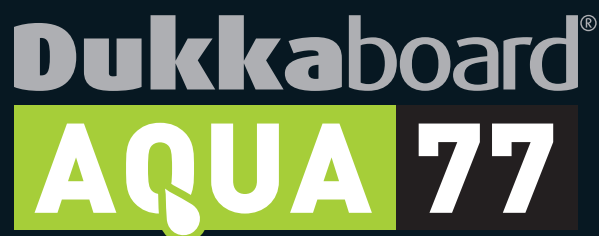
* 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems	No further data; see item 7.
Control parameters	
Components with limit values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information	The lists that were valid during the compilation were used as basis.
Exposure controls	
Personal protective equipment	
General protective and hygienic measures	The usual precautionary measures should be adhered to general rules for handling chemicals.
Breathing equipment	Not required.
Protection of hands	Not required.
Material of gloves	
Penetration time of glove material	
Eye protection	Safety glasses recommended during refilling.

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* 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance

Form	Fluid.
Colour	Green.
Odour	Characteristic.
Odour threshold	Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range	Not determined.
Boiling point/Boiling range	100°C

Flash point	Not applicable.
Ignition temperature	
Decomposition temperature	Not determined.
Self-inflammability	Product is not selfigniting.
Danger of explosion	Product is not explosive.

Critical values for explosion:

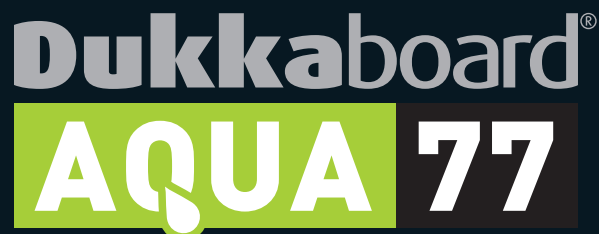
Lower	Not determined.
Upper	Not determined.

Vapour pressure at 20°C	23 hPa
Density at 20°C	0.99 g/cm ³
Relative density	Not determined
Vapour density	Not determined.
Evaporation rate	Not determined.

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DUKKABOARD AQUA 77 PRO-TILE PRIMER

* 9 PHYSICAL AND CHEMICAL PROPERTIES (CONT)

Solubility in / Miscibility with Water	Dispersible.
Segregation coefficient (n-octanol/water)	Not determined.
Viscosity	
Dynamic	Not determined.
Kinematic	Not determined.
Organic solvents	0.0 %
Other information	No further relevant information available.

* 10 STABILITY AND REACTIVITY

Reactivity	
Chemical stability	
Thermal decomposition / conditions to be avoided	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.
Hazardous decomposition products	No dangerous decomposition products known.

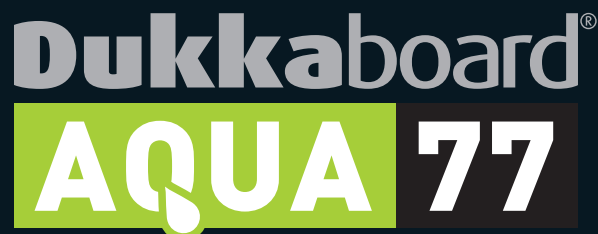
* 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Acute toxicity	
Primary irritant effect	
On the skin	No irritant effect.
On the eye	No irritant effect.
Sensitization	No sensitizing effect known.

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DUKKABOARD AQUA 77 PRO-TILE PRIMER

* 11 TOXICOLOGICAL INFORMATION (CONT)

Additional toxicological information The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

* 12 ECOLOGICAL INFORMATION

Toxicity

Acquatic toxicity No further relevant information available.

Persistence and degradability No further relevant information available.

Behaviour in environmental systems

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

General notes Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Results of PBT and vPvB assessment

PBT Not applicable.

vPvB Not applicable.

Other adverse effects No further relevant information available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation Smaller quantities can be disposed with household waste.

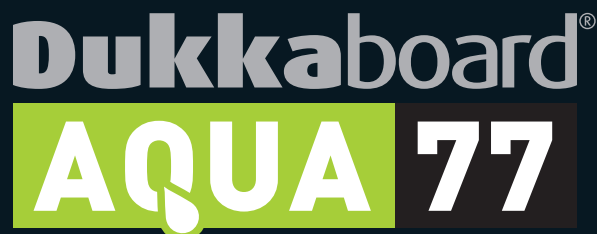
Uncleaned packagings

Recommendation Disposal must be made according to official regulations.

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* 14 TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

ADR/RID-GGVS/E Class

Maritime transport IMDG

IMDG Class

Marine pollutant No

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class

UN "Model Regulation"

Special precautions for user Not applicable.

Transport in bulk according to Not applicable.

Annex II of MARPOL73/78 and the IBC Code

* 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.

Additional classification according to Decree on Hazardous Materials, Annex II

Water hazard class

Water hazard class 1 (Self-assessment): slightly hazardous for water

Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

* 16 OTHER INFORMATION

Contact

Dukkaboard 08701 271300

*Data compared to the previous version altered.