

# DATA SHEET

DATE 01.10.11  
VERSION 01

# Dukkaboard®

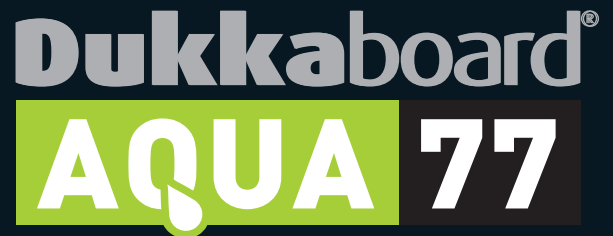
## AQUA 77

### DUKKABOARD AQUA 77

NEO-FLEX	PRODUCT CHARACTERISTICS
 <p>The image shows two tubs of Dukkaboard Aqua 77 Neo-Flex. The top tub is 5kg and the bottom tub is 10kg. Both tubs have a white body with a green lid and a label that includes the product name, 'NEO-FLEX', and a list of characteristics: SOLVENT FREE, HIGH ELASTICITY, CHEMICAL STABILITY, EASY TO APPLY, and LOW VOC EMISSIONS. The labels also contain descriptive text about the product's benefits and safety.</p>	<p><b>SOLVENT FREE</b> <b>HIGH ELASTICITY</b> <b>CHEMICAL STABILITY</b> <b>EASY TO APPLY</b> <b>LOW VOC EMISSIONS</b></p>
<b>GENERAL PRODUCT DESCRIPTION</b>	<b>PRODUCT USAGE</b>
<p><b>An organic, water-based, eco-friendly, mineral waterproofing product for absorbent substrates in damp environments, ideal for use in sustainable building. Single-component with very low volatile organic compound emissions. Safeguards the health of both operators and the environment.</b></p> <p>Dukkaboard Aqua 77 Neo-Flex provides total water-resistance under positive thrust, guaranteeing the protection of absorbent substrates or those subject to damp, or constantly humid environments.</p>	<p>Waterproofing of smooth, compact and absorbent substrates before laying ceramic coverings with adhesives:</p> <ul style="list-style-type: none"><li>Concrete flooring,</li><li>Compact and smooth cement-based screeds,</li><li>Prefabricated concrete and fresh concrete castings,</li><li>Gypsum, plasterboard and gypsum brick walls,</li><li>Cement-based plasters and finishing products and cement-lime mortar before application of ceramic coatings using adhesives.</li></ul> <p><b>Do not use</b> Do not use in external applications, on wet surfaces or substrates subject to moisture rising; in environments where water is always present, baths, swimming pools and tanks.</p>

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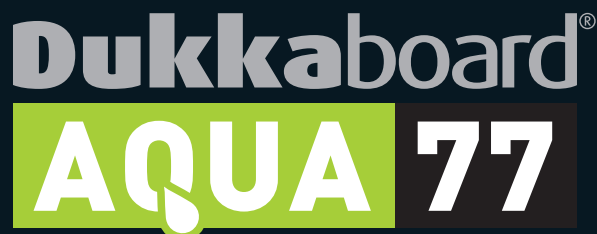
## DUKKABOARD AQUA 77

PREPARATION OF SUBSTRATES	INSTRUCTIONS FOR USE																													
<p>Substrates must comply with BS 5385, parts 1-5, be compact, smooth, absorbent, free from substances that reduce adhesion such as dust, oil, grease and with no loose material. Varnishes and paints must be removed completely. Substrates must be stable, non-deformable and with no cracks.</p> <p>Cement-based substrates must have a residual humidity <math>\leq 2</math> CM-%. Plasters with a gypsum base must present a residual humidity <math>\leq 1</math> CM-%, and screeds with an anhydrite base <math>\leq 0.5</math> CM-%, or <math>\leq 0.3</math> CM-% if an underfloor heating system is installed.</p> <p>Before waterproofing the substrates must be primed with Pro-Tile Primer, eco-friendly water-based, solvent-free primer, following the instructions for use.</p>	<p>Neo-Flex is immediately ready for use. Before use it is advisable to remix the product inside the container to ensure the mixture is of an even consistency. Any excess adhesive can be kept for later use by sealing the container.</p> <p>Apply a fine, uniform film, preferably using a roller, a steel spreader or a brush. Repeat the operation when the first coat has hardened (<math>\approx 1</math> h according to the absorbency of the substrate and the temperature). The distinct light blue colour of Neo-Flex allows the user to check if the surface has been completely and evenly covered.</p> <p>For waterproofing of corners and expansion joints with Dukkaboard Aqua 77 Fleece+ applied using Neo-Flex. For external and internal angles and for water and drainage pipeline crossings use special pre-formed pieces applied using Neo-Flex.</p> <p><b>Tools</b> Spreader, roller, brush. Wash tools with water before the product hardens.</p>																													
TECHNICAL DATA	<p><b>Special Notes</b> <b>On highly absorbent substrates, apply a base coat by diluting Neo-Flex with water depending on substrate absorption (max 5%). After this, apply the second undiluted coat using a steel spreader or roller to ensure the watertightness of the surface.</b></p>																													
<table><tbody><tr><td>Appearance</td><td>Light blue paste</td></tr><tr><td>Specific weight</td><td><math>\approx 1,44</math> kg/dm<sup>3</sup></td></tr><tr><td>Chemical nature</td><td>co-polymers dispersed in water</td></tr><tr><td>Shelf life</td><td><math>\approx 12</math> months in the original packaging</td></tr><tr><td>Pack containers</td><td>10 / 5 kg</td></tr><tr><td>Viscosity</td><td><math>\approx 1100000</math> mPa · s, rotore 93 RPM 0,5 Brookfield method</td></tr><tr><td>Temperature range for application</td><td>from +5°C to +35°C</td></tr><tr><td>Dilution for base coat</td><td><math>\approx 5\%</math></td></tr><tr><td>Minimum thickness per coat</td><td><math>\approx 1</math> mm</td></tr><tr><td>Minimum dry thickness per coat</td><td><math>\approx 500</math> <math>\mu</math>m</td></tr><tr><td>Waiting time between 1st and 2nd coat</td><td><math>\approx 1</math> hr</td></tr><tr><td>Waiting time before laying:</td><td></td></tr><tr><td>Minimum</td><td><math>\geq 2</math> hrs</td></tr><tr><td>Maximum</td><td><math>\leq 48</math> hrs</td></tr><tr><td>Coverage</td><td><math>\approx 1,5</math> kg/m<sup>2</sup></td></tr></tbody></table> <p>Warning protect from frost, avoid direct exposure to sunlight and sources of heat</p> <p><small>Values taken at +23 °C, 50% R.H. and no ventilation.</small></p>		Appearance	Light blue paste	Specific weight	$\approx 1,44$ kg/dm <sup>3</sup>	Chemical nature	co-polymers dispersed in water	Shelf life	$\approx 12$ months in the original packaging	Pack containers	10 / 5 kg	Viscosity	$\approx 1100000$ mPa · s, rotore 93 RPM 0,5 Brookfield method	Temperature range for application	from +5°C to +35°C	Dilution for base coat	$\approx 5\%$	Minimum thickness per coat	$\approx 1$ mm	Minimum dry thickness per coat	$\approx 500$ $\mu$ m	Waiting time between 1st and 2nd coat	$\approx 1$ hr	Waiting time before laying:		Minimum	$\geq 2$ hrs	Maximum	$\leq 48$ hrs	Coverage
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## DUKKABOARD AQUA 77 NEO-FLEX

### \* 1 IDENTIFICATION OF SUBSTANCE

<b>Trade name</b>	Dukkaboard Aqua 77 Neo-Flex
<b>Application of the substance / preparation</b>	Hydrophobing Agent / Water Repellent
<b>Manufacturer / supplier</b>	Dukkaboard Kimberley Business Park, Blackness Lane Keston, Kent, BR2 6HL Telephone 08701 271 300
<b>Informing department</b>	Product Safety Department

### 2 COMPOSITION / DATA ON COMPONENTS

<b>Description</b>	Mixture of the substances listed below with harmless additions
<b>Dangerous components</b>	Void
<b>Additional information</b>	For the wording of the listed risk phrases refer to section 16

### 3 HAZARDS IDENTIFICATION

<b>Hazard designation</b>	Void
<b>Hazards pertaining to particular dangers for man and environment</b>	Void
<b>Classification system</b>	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

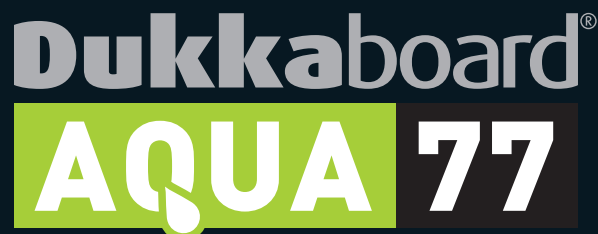
### 4 FIRST AID MEASURES

<b>General information</b>	No special measures required
<b>After inhalation</b>	Supply fresh air, consult doctor in case of symptoms
<b>After skin contact</b>	The product is not skin irritating
<b>After eye contact</b>	Rinse opened eye for several minutes under running water
<b>After swallowing</b>	In case of persistent symptoms consult doctor

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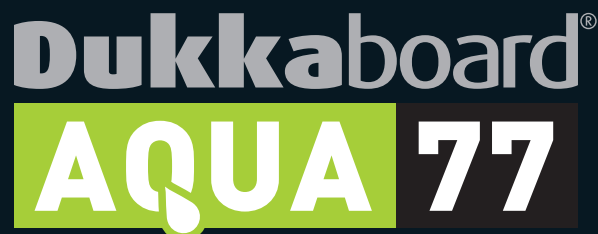


## DUKKABOARD AQUA 77 NEO-FLEX

<b>5 FIRE FIGHTING MEASURES</b>	
<b>Suitable extinguishing agents</b>	CO2, extinguishing powder or water jet Fight larger fires with water jet or alcohol-resistant foam
<b>Protective equipment</b>	No special measures required
<b>6 ACCIDENTAL RELEASE MEASURES</b>	
<b>Person related safety precautions</b>	Not required
<b>Measures for environmental protection</b>	Dilute with much water
<b>Measures for cleaning / collecting</b>	Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust)
<b>Additional information</b>	No dangerous materials are released
<b>7 HANDLING AND STORAGE</b>	
<b>Information for safe handling</b>	No special measures required
<b>Information about protection against explosions and fires</b>	No special measures required
<b>Requirements to be met by storerooms and containers</b>	No special measures required
<b>Information about storage in one common storage facility</b>	Not required
<b>Further information about storage conditions</b>	None

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## DUKKABOARD AQUA 77 NEO-FLEX

### \* 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Additional information about design of technical systems</b>	No further data, see item 7
<b>Components with limit values that require monitoring at the workplace</b>	13463-67-7 titanium dioxide (1-2.5%) OES Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable dust **respirable dust
<b>Additional information</b>	The lists that were valid during the compilation were used as basis
<b>General protective and hygienic measures</b>	The usual precautionary measures should be adhered to general rules for handling chemicals
<b>Breathing equipment</b>	Not required
<b>Protection of hands</b>	Protective gloves
<b>Material of gloves</b>	Rubber gloves
<b>Penetration time of glove material</b>	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed
<b>Eye protection</b>	Safety glasses recommended during refilling

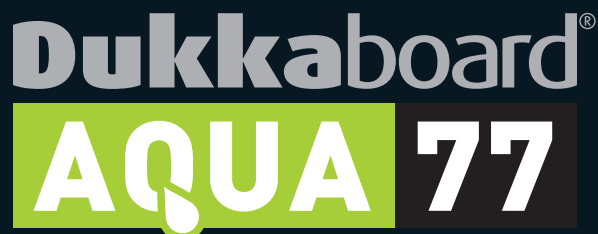
### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Pasty
<b>Colour</b>	Light blue
<b>Odour</b>	Characteristic
<b>Melting point / melting range</b>	Not determined
<b>Boiling point / boiling range</b>	100°C
<b>Flash point</b>	Not applicable
<b>Self-inflamability</b>	Product is not selfigniting
<b>Danger of explosion</b>	Product is not explosive
<b>Density at 20°C</b>	1.48 g/cm <sup>3</sup>
<b>Solubility in / miscibility with water</b>	Unsoluble
<b>pH value at 20°C</b>	8.8
<b>Dynamic viscosity at 20°C</b>	74000 mPas
<b>Organic solvent viscosity</b>	0.0%

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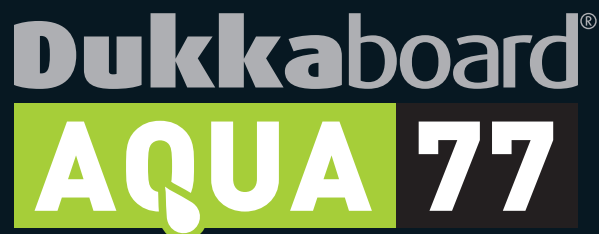
## DUKKABOARD AQUA 77 NEO-FLEX

<b>10 STABILITY AND REACTIVITY</b>	
<b>Thermal decomposition / conditions to be avoided</b>	No decomposition if used according to specifications
<b>Dangerous reactions</b>	No dangerous reactions known
<b>Dangerous products of decompositions</b>	No dangerous decomposition products known
<b>11 TOXICOLOGICAL INFORMATION</b>	
<b>Primary irritant effect on the skin</b>	No irritant effect
<b>Primary irritant effect on the eye</b>	No irritant effect
<b>Sensitisation</b>	No sensitising effect known
<b>Additional toxicological information</b>	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 the specifications, the product does not have any harmful effects according to our experience and the information provided to us
<b>12 ECOLOGICAL INFORMATION</b>	
<b>General notes</b>	Not known to be hazardous to water
<b>13 DISPOSAL CONSIDERATIONS</b>	
<b>Product recommendation</b>	Smaller quantities can be disposed with household waste
<b>Uncleaned packaging recommendation</b>	Disposal must be made according to official regulations
<b>Recommended cleaning agent</b>	Water, if necessary with cleaning agent

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## DUKKABOARD AQUA 77 NEO-FLEX

### 14 TRANSPORT INFORMATION

**Land transport ADR/RID (cross border)**

**ADR/RID-GGVS/E Class**

**Maritime transport IMDG**

**IMDG Class**

**Maritime pollutant** No

**Air transport ICAO-TI and IATA-DGR**

**ICAO/IATA Class**

### \* 15 REGULATORY INFORMATION

**Designation according to EC guidelines**

Observe the normal safety regulations when handling chemicals  
The product has been labelled in accordance with EC Directives / relevant national laws

### 16 OTHER INFORMATION

**Contact**

Dukkaboard 08701 271300

\*Data compared to the previous version altered.