

WonderBuilds LiquidGuard

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WonderBuilds LiquidGuard
COMPANY: WonderBuilds, 16 Hampden Gurney Street, London, W1H 5AL
CONTACT NUMBER: 0208 208 21 21
EMAIL ADDRESS: admin@wonderbuilds.co.uk

DESCRIPTION

WonderBuilds LiquidGuard is a single pack, high performance, seamless and cold-applied waterproofing membrane for flat roofs, pitched roofs and a waterproofing coating to WonderBuilds' Built-Up Roof systems. It cures to provide a completely seamless waterproof protection, making it suitable for use in all climates. WonderBuilds LiquidGuard does not brittle with age. It is a moisture curing polyurethane system, can cure under water without gassing or foaming. It also becomes resistant to rain damage quickly, without loss of performance.

BENEFITS

- Totally seamless
- Elastomeric
- Cold applied – eliminating the risk of fire
- Excellent thermal and UV stability for all climates
- BRoofT4 certification
- High abrasion resistance
- High adhesion
- Crack-bridging ability
- Easy to apply

APPLICATIONS

- Flat roofing waterproofing system
- Can be used on a range of substrates
- Suitable for new builds and refurbishments

FORM

STANDARD COLOUR: Grey
CONTAINER SIZE: 15 litres

DURABILITY

When subjected to normal service conditions, WonderBuilds LiquidGuard will provide an effective waterproof barrier up to 10, 15 and 20 years dependent on system.

All systems can be overcoated at the end of their designed life at a fraction of the cost, for an original installed cost excluding inflation. Therefore, it avoids the need to strip out the system and prevents product going to landfill.

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INSTALLATION

SURFACE PREPARATION AND APPLICATION:

All areas should be clean, dry, free from dirt, dust, grease and any loose aggregate removed. WonderBuilds LiquidGuard should not be applied in wet conditions or when rain is imminent. The surface must be free of any visible moisture.

PRIMERS: WonderBuilds LiquidGuard is bitumen compatible, no primer required. Metal, concrete, single-ply, other coatings and porous surfaces will require priming. Consult the WonderBuilds technical department for guidance.

CURE TIMES: Allow minimum 4 to 6 hours to overcoat at 20°C. Cure times may be extended at low temperatures and low humidity. Typical overcoat time overnight/24hrs.

AIR TEMPERATURE: +5°C min. / +35°C max.

SURFACE TEMPERATURE: +5°C min. / +55°C

max. **SUBSTRATE MOISTURE CONTENT:**

WME <28% max

DEW POINT: Surface Temp. 3°C min. above dew point

SHOWER PROOF: 30 minutes

LIFE EXPECTANCY: Minimum life expectancy to first major maintenance is 10, 15, 20 years dependent on system.

STORAGE CONDITIONS/SHELF LIFE

STORAGE: Store in original, unopened and undamaged sealed packaging in dry conditions at temperatures >5°C and <25°C.

*Protect from Frost

SHELF LIFE: 9 months from date of production if stored properly in original, unopened sealed packaging.

COVERAGE RATES

WonderBuilds LiquidGuard Base Coat and Top Coat are the same material. The Base Coat is always fully reinforced while wet with Glass Fibre Mat Reinforcement (225gram/m² GFM).

VERTICAL/PITCHED: Substrates may require Top Coat applied in more than one application, to achieve the required system Dry Film Thickness (DFT).

Table below assumes a non-porous, smooth substrate – Base Coat consumption may increase with rough/porous surfaces. For further information – Contact WonderBuilds technical Services

Type of Substrate	Base Coat			Top Coat		
	10 Years	15 Years	20 Years	10 Years	15 Years	20 Years
Asphalt	1.0 Ltr/m ²	1.0 Ltr/m ²	1.0 Ltr/m ²	0.5 Ltr/m ²	0.75 Ltr/m ²	1.0 Ltr/m ²
Pro-Carrier S/A	1.0 Ltr/m ²	1.0 Ltr/m ²	1.0 Ltr/m ²	0.5 Ltr/m ²	0.75 Ltr/m ²	1.0 Ltr/m ²
Mineral Felt	1.5 Ltr/m ²	1.5 Ltr/m ²	1.5 Ltr/m ²	0.5 Ltr/m ²	0.75 Ltr/m ²	1.0 Ltr/m ²

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TECHNICAL DATA

Specific weight UNI EN ISO 2811-1	1.50 ± 0.03 g/ml
Viscosity at 20°C UNI EN ISO 2555	25.000 ± 5.000 mPa .s
Solid content EN ISO 3251	83±1% by volume, 87% by weight
Theoretical consumption	2.000 -2500 g/m ²
Thickness	1000-1250 µm
Curing at 22°C, 50% R.H.	dry to the touch - 6 hours deeply hardened - 16 hours over-application - 24 hours completely cured - 10 days
Permeability to carbon dioxide EN 1062-6	Sd > 50 m
Permeability to water vapour EN ISO 7783-2	Sd < 5 m
Capillary absorption and permeability to water EN ISO 1062-3	< 0.1 kg/m ² · h ^{0.5}
Adhesion to concrete (traction) EN 1542	> 1.5 MPa
Tensile strength UNI EN 12311-2	> 6 M Pa
Elongation at failure UNI EN 12311-2	> 600 % (Unreinforced)
Shore A Hardness EN ISO 868	70

TECHNICAL DATA

All products should be sold in accordance with the manufacturer's instructions. The manufacturer cannot be held responsible where conditions of use are beyond our control. WonderBuilds products' are available for sale in accordance with Wonder- Builds standard conditions of sale, which is available upon request. Whilst any information contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations, agents, or distributors, as the conditions of use and any labour involved are beyond our control. Our warranty is therefore limited to the quality of supplied product.