

HOMESURE wShield Flexi Guard

Water-based acrylic-urethane protective coating



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PRODUCT DESCRIPTION:

- **Homesure wShield Flexi Guard** is a single-component, water-based acrylic-urethane protective coating for maintenance and refurbishment of roof and external building surfaces where improved flexibility and durability performance are required
- It cures to form a seamless protective film with improved flexibility and accommodates normal substrate movement under typical service conditions

KEY FEATURES:

- Acrylic-urethane hybrid coating
- Water-based, low odour formulation
- Ready to use — no on-site mixing required
- Forms a seamless protective film
- Flexible cured coating with improved flexibility accommodating normal substrate movement under typical service conditions
- Good adhesion to common roofing and construction substrates under suitable preparation conditions
- Suitable for horizontal and inclined surfaces
- Grey finish intended to provide resistance to normal UV and weather exposure under suitable conditions
- Suitable for brush, roller or spray application

TYPICAL USES:

- Maintenance and refurbishment applications on roof and exposed building surfaces
- Balconies, terraces, podium decks, parapets, upstands and detailing areas
- Exposed concrete and compatible external surfaces where improved flexibility is required

SUITABLE SUBSTRATES:

Suitable for application to properly prepared:

- Concrete and cementitious surfaces
- Asphalt (*aged and stable*)
- Metal substrates and roof sheets (*with suitable compatible primer*)
- Wood
- Existing sound and compatible coatings, where fully bonded and suitable for overcoating

LIMITATIONS:

- Not intended or represented as a certified roofing or waterproofing membrane system or assembly
- Not intended for structural waterproofing, tanking or hydrostatic conditions
- Not intended as an exposed traffic-bearing or wearing surface unless incorporated within a suitably designed and protected system build-up
- Not intended for hydrostatic or negative-side waterproofing conditions
- Not suitable for continuous immersion or prolonged standing water
- Project-specific system design, detailing and substrate suitability should be confirmed by the project consultant or contractor where required

APPLICATION PROCEDURE:

APPLICATION CONDITIONS (guidance only):

- Ambient temperature: typically +5°C to +35°C
- Relative humidity: preferably below 85%
- Substrate temperature: at least 3°C above dew point where practicable

SURFACE PREPARATION

- Surfaces must be clean, dry and sound, and free from dust, laitance, oil, grease and loose material
- Repair cracks and defects before application
- Remove rust and loose coatings from metal surfaces and prime appropriately
- Porous substrates and certain mineral surfaces may require priming

PRIMING

- Where required, prime porous substrates and certain mineral surfaces with a suitable compatible primer, or with diluted product where appropriate
- Prime metal surfaces using a suitable compatible primer where required
- Allow primers to dry fully before coating

APPLICATION

- Apply by brush, roller or spray
- Apply in two coats
- Apply coats in perpendicular directions
- Allow adequate drying between coats
- First coat may be diluted with up to 20% clean water depending on substrate condition and porosity
- Second coat should normally be applied undiluted; where necessary, dilution should not exceed 10% with clean water
- Maintain a consistent film build across the surface
- Reinforcement may be required at joints, cracks, detail areas and other high-stress locations where specified

CLEANING

- Clean tools and equipment with water immediately after use
- Remove spillages while still wet using water
- Once cured, material can only be removed by mechanical means

COVERAGE:

- Approx. 1.1–1.4 m²/kg for a two-coat application
- Actual dry film thickness achieved will vary depending on substrate profile, absorption, detailing and application method
- Primer coverage will vary depending on substrate condition and dilution; typically approx. 3.7–5.5 m² per kg when diluted

DRYING & CURING:

PROPERTY	TYPICAL VALUE
Surface dry	Approx. 2 hours
Recoat interval	3–5 hours
Light curing	Approx. 24 hours
Full cure	Typically, within 7 days depending on site conditions. Performance develops progressively during curing
<i>(At 23°C and 50% RH, unless otherwise stated)</i>	

NOTES:

- Drying times may vary depending on substrate, application thickness, and environmental conditions
- Low temperatures and high humidity will extend curing times

TECHNICAL DATA SHEET

TECHNICAL DATA:

PROPERTY	TYPICAL VALUE	TEST METHOD / BASIS
Appearance	Thixotropic liquid	Visual assessment
Colour	Grey	Visual assessment
Specific Gravity (20±2°C)	1.30 ± 0.10	Internal laboratory measurement
Viscosity (20±2°C)	30,000 – 50,000 cP	Internal laboratory measurement
Solid content	60 ± 3%	Formulation-based assessment
Tensile strength	Approx. 1.10 ± 0.20 MPa	Internal laboratory evaluation (indicative)
Elongation at break	> 500%	Internal laboratory evaluation (indicative)
Water resistance (ingress / wet exposure)	Resistant to water ingress under normal service conditions	Internal laboratory evaluation (indicative)
Crack accommodation capability	Indicative value: up to approx. 4 mm under controlled laboratory conditions	Internal laboratory evaluation (non-accredited)
VOC content	Low VOC formulation	Formulation-based assessment

NOTES:

- All values are based on internal laboratory evaluation, formulation data, and selected industry reference methodologies where applicable
- Any references to ASTM, IS, or equivalent standards are indicative only and do not imply certified compliance unless explicitly stated in a separate approved test certificate
- Where BS EN or third-party accredited methods are not specifically referenced, any alignment should be considered directional and not equivalent to certified compliance
- Performance characteristics including crack accommodation, tensile strength, elongation, and water resistance are provided for guidance only and do not constitute system certification or guaranteed in-situ performance
- Actual performance will vary depending on substrate condition, surface preparation, application thickness, and environmental exposure conditions

PACKAGING:

- Supplied in 1 kg (sample pack), 5 kg and 20 kg re-sealable buckets
- Other pack sizes may be available on request

STORAGE & SHELF LIFE:

- Store in original unopened containers in a cool, dry and well-ventilated place
- Recommended storage temperature: +5°C to +35°C
- Protect from frost, excessive heat and direct sunlight
- Keep containers tightly closed when not in use
- Opened containers should be resealed promptly after use
- Shelf life: 12 months from date of manufacture when stored in original unopened containers under recommended conditions

USAGE PRECAUTIONS:

- Do not apply to frozen, wet or damp substrates
- Do not apply during rain or where rain or condensation is expected before curing
- Do not apply when ambient or substrate temperatures are below 5°C
- Protect freshly applied coating from water exposure until adequately cured

TECHNICAL DATA SHEET

- In hot, dry or windy conditions, take precautions to avoid rapid drying
- Ensure adequate falls and drainage are present before application
- Keep out of reach of children

HANDLING:

- Refer to the latest Safety Data Sheet before use
- Wear suitable personal protective equipment (PPE), including gloves and eye protection
- Avoid contact with skin and eyes
- Ensure adequate ventilation during application and drying
- Wash hands thoroughly after handling

DISPOSAL:

- Dispose of contents and container in accordance with local regulations
- Avoid discharge into drains, watercourses and soil
- Packaging may be recycled after cleaning where permitted

IMPORTANT INFORMATION:

- **REGULATORY NOTE (UK):** This document is issued for technical information, evaluation, and sampling purposes only. Final regulatory status and any obligations arising under the Construction Products Regulations 2013 (as retained and amended in Great Britain) will depend on the product's final classification and intended use
 - Information contained in this document is given in good faith and is based on current knowledge, experience and testing carried out under controlled conditions. It is provided for general guidance only
 - The performance of the product depends on substrate condition, site preparation, application method, film build, curing conditions and other site variables beyond the manufacturer's control. Users must verify suitability for the intended application prior to use
 - This product is supplied as a liquid-applied surface coating for maintenance, refurbishment and surface protection applications. It does not form a tanking system and is not presented as a structural waterproofing system, certified roofing system, engineered membrane assembly or project-specific specification unless expressly stated otherwise
 - Users should always refer to the latest Technical Data Sheet and Safety Data Sheet before use
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