

SBC

TECHNICAL DATA SHEET

SOLAR GUARD PRO AQUA TRAPPAULIN AND RUBBER PAINT

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1. PRODUCT IDENTIFICATION

Product Name

SOLAR GUARD PRO AQUA TRAPPAULIN AND RUBBER PAINT

Product Type

Two-component water-based acrylic-polyurethane protective coating.

Components

- Component A – Base
- Component B – Hardener

Appearance

Liquid coating.

Finish

Semi-matt / Satin (depending on colour and application method).

Colour Range

Available in standard and custom colours upon request.

2. PRODUCT DESCRIPTION

SOLAR GUARD PRO AQUA TRAPPAULIN AND RUBBER PAINT is a two-component water-based protective coating developed for the long-term protection and refurbishment of tarpaulins, rubber substrates, PVC-based materials and other compatible surfaces.

The coating provides excellent weather resistance, UV durability, flexibility and adhesion while maintaining high resistance to mechanical wear and environmental exposure.

Its advanced formulation has been designed to reduce solar heat absorption while providing long-term colour stability and surface protection.

3. RECOMMENDED USES

The product is suitable for:

- Industrial tarpaulins
 - Agricultural tarpaulins
 - PVC membranes
 - Rubber surfaces
 - Inflatable boats
 - Flexible polymer substrates
 - Aluminium
 - Galvanized steel
 - Properly prepared timber
 - Other compatible substrates after preliminary testing
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4. MAIN FEATURES

- Water-based technology
 - Two-component system
 - Low VOC formulation
 - Excellent UV resistance
 - High flexibility
 - Excellent adhesion
 - Outstanding weather resistance
 - Good abrasion resistance
 - Easy application
 - Long service life
 - Excellent colour retention
 - Environmentally responsible technology
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5. SYSTEM BENEFITS

The coating system provides:

- long-term substrate protection;
- reduction of weather-induced degradation;

- improved appearance;
 - excellent durability;
 - reduced maintenance requirements;
 - high resistance to ageing;
 - compatibility with recommended primers and coating systems.
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6. TYPICAL APPLICATION AREAS

Typical applications include:

- truck tarpaulins;
 - trailer covers;
 - architectural membranes;
 - inflatable structures;
 - sports facilities;
 - industrial fabric structures;
 - rubber equipment;
 - flexible polymer components.
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7. COMPATIBLE SUBSTRATES

Suitable substrates include:

- PVC-coated fabrics;
 - EPDM rubber (after compatibility testing);
 - rubber sheets;
 - polyurethane-coated fabrics;
 - galvanized steel;
 - aluminium;
 - timber;
 - previously coated compatible surfaces in sound condition.
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8. SURFACE PREPARATION

All surfaces shall be:

- clean;

- dry;
- free from oil;
- free from grease;
- free from dust;
- free from loose particles;
- mechanically sound.

Surface preparation shall follow the Application Guide.

9. MIXING

Component A shall be mechanically stirred before mixing.

Add Component B according to the specified mixing ratio.

Mix until a completely homogeneous mixture has been obtained.

Do not use partial mixing unless accurate weighing equipment is available.

10. APPLICATION METHODS

Suitable application methods include:

- Brush
- Roller
- Airless spray
- Conventional spray equipment

Selection of the application method depends on the substrate geometry and project requirements.

11. PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Product Type	Two-component water-based acrylic-polyurethane coating	Manufacturer Specification
Components	A + B	—
Appearance	Liquid	Visual
Colour	According to approved colour chart	Visual
Finish	Semi-matt / Satin	Visual
Odour	Mild	Internal Method

Property	Typical Value	Test Method
Density	<i>To be confirmed</i>	ISO 2811
Solids by Volume	<i>To be confirmed</i>	ISO 3233
Solids by Weight	<i>To be confirmed</i>	ISO 3251
VOC Content	<i>To be confirmed</i>	Applicable local regulations
Flash Point	Not applicable / To be confirmed	ISO 3679
Shelf Life	Refer to Section 23	Manufacturer Specification

12. APPLICATION DATA

Parameter	Value
Mixing Ratio	According to Product Specification
Pot Life	<i>To be confirmed</i>
Application Temperature	+10°C to +35°C (recommended)
Substrate Temperature	Minimum 3°C above dew point
Relative Humidity	Maximum 80%
Application Methods	Brush, Roller, Airless Spray
Thinning	As recommended by the manufacturer
Cleaning Agent	Clean water before curing

13. RECOMMENDED FILM THICKNESS

The coating system shall be applied in accordance with the approved coating specification.

Typical values:

Parameter	Typical Value
Wet Film Thickness	To be confirmed
Dry Film Thickness	To be confirmed
Number of Coats	Normally 2

Parameter	Typical Value
Coverage Rate	To be confirmed depending on substrate

Actual consumption depends on:

- substrate roughness;
- application method;
- operator experience;
- environmental conditions;
- wastage during application.

14. DRYING TIMES

Drying times are influenced by:

- ambient temperature;
- substrate temperature;
- humidity;
- air circulation;
- applied film thickness.

Typical drying schedule (23°C / 50% RH):

Stage	Typical Time
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Surface Dry	To be confirmed
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Touch Dry	To be confirmed
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Recoatable	To be confirmed
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Fully Cured	To be confirmed
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Lower temperatures and higher humidity will extend drying times.

15. ENVIRONMENTAL CONDITIONS DURING APPLICATION

Application shall not commence unless:

- substrate temperature exceeds the dew point by at least 3°C;
- ambient temperature is within the recommended range;
- rain is not expected during application;
- condensation is absent;

- adequate ventilation is available.

Application shall be suspended during:

- rainfall;
 - fog;
 - frost;
 - snow;
 - strong winds carrying dust or contaminants.
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16. CHEMICAL RESISTANCE

Once fully cured, the coating provides good resistance to normal atmospheric contaminants and commonly encountered environmental exposure.

Resistance to specific chemicals depends on:

- concentration;
- exposure duration;
- operating temperature;
- cleaning frequency.

Where chemical resistance is critical, compatibility testing is recommended before full-scale application.

17. MECHANICAL PERFORMANCE

The coating system is designed to provide:

- excellent flexibility;
- good impact resistance;
- good abrasion resistance;
- high adhesion to compatible substrates;
- resistance to normal service deformation.

Mechanical performance shall be verified using the relevant laboratory test reports where applicable.

18. WEATHER RESISTANCE

The coating system has been developed for long-term exterior exposure.

The coating demonstrates resistance to:

- ultraviolet radiation;

- rainfall;
- humidity;
- temperature fluctuations;
- freeze-thaw cycles;
- normal atmospheric pollution.

Long-term durability depends on correct substrate preparation and proper application.

19. UV RESISTANCE

The coating has been formulated for enhanced ultraviolet resistance and colour stability.

Where available, UV resistance shall be demonstrated by laboratory testing performed in accordance with the applicable international standards.

The final test results shall be referenced in the corresponding laboratory reports.

20. SOLAR REFLECTANCE

Where applicable, the coating may contribute to reducing solar heat absorption through enhanced solar reflectance.

Performance depends on:

- colour;
- pigment formulation;
- surface finish;
- substrate type.

Solar Reflectance (SR), Total Solar Reflectance (TSR) and Solar Reflectance Index (SRI) values shall be declared only where verified by accredited laboratory testing.

21. ADHESION

The adhesion performance of **SOLAR GUARD PRO AQUA TRAPULIN AND RUBBER PAINT** is dependent upon proper substrate preparation, environmental conditions during application, and compliance with the recommended application procedure.

The coating system has been developed to achieve excellent adhesion to compatible substrates including PVC-coated fabrics, rubber, aluminium, galvanized steel and other approved materials.

Adhesion performance shall be verified, where required, by laboratory testing in accordance with internationally recognised standards.

Final adhesion values shall be declared only on the basis of validated laboratory reports.

22. FLEXIBILITY

The coating is formulated to maintain flexibility after curing while resisting cracking, peeling and delamination under normal service conditions.

The cured coating is capable of accommodating normal substrate movement associated with flexible materials such as coated fabrics and rubber components.

Flexibility performance shall be confirmed by laboratory testing where applicable.

23. ABRASION RESISTANCE

The cured coating provides good resistance to mechanical wear encountered during normal service.

Abrasion resistance may be verified using recognised laboratory methods such as Taber Abrasion testing.

Where available, verified laboratory results shall be referenced in supporting technical documentation.

24. WATER RESISTANCE

After full curing, the coating provides effective resistance to rain, moisture and prolonged outdoor exposure.

The coating is intended for exterior service environments where periodic wetting and drying cycles occur.

Permanent immersion applications shall only be permitted where specifically approved by the manufacturer.

25. STORAGE

The product shall be stored:

- in its original unopened container;
- in dry conditions;
- protected from direct sunlight;
- protected against frost;
- in a well-ventilated storage area;
- away from heat sources and ignition sources where applicable.

Containers shall remain tightly closed until use.

26. SHELF LIFE

When stored under the recommended conditions in unopened original containers, the product retains its specified quality for the shelf life stated on the product packaging.

Expired material shall not be used without technical evaluation by the manufacturer.

27. PACKAGING

Typical packaging options include:

Component Standard Packaging

Component A To be specified

Component B To be specified

Complete Kit To be specified

Other package sizes may be supplied upon request.

28. CLEANING

Application equipment shall be cleaned immediately after use.

Before curing, cleaning may be carried out using clean water or the manufacturer's recommended cleaning agent.

Once cured, the coating can only be removed by mechanical methods.

29. HEALTH, SAFETY AND ENVIRONMENT

The product shall be handled in accordance with good industrial hygiene and safe working practices.

Users shall:

- wear appropriate personal protective equipment (PPE);
- avoid unnecessary skin and eye contact;
- ensure adequate ventilation during application;
- comply with all local health and safety regulations.

For detailed health, safety and environmental information, refer to the latest **Safety Data Sheet (SDS)**.

30. LIMITATIONS

This product shall not be applied:

- outside the recommended temperature range;
- to contaminated or inadequately prepared substrates;
- during rainfall or condensation;

- onto frozen substrates;
- under conditions preventing proper curing.

Application outside the recommendations contained within this Technical Data Sheet may adversely affect product performance.

31. QUALITY ASSURANCE

All manufacturing activities shall be performed under the manufacturer's quality management system.

Each production batch shall undergo the required quality control procedures prior to release.

Only material complying with the approved product specification shall be released for sale.

32. TRACEABILITY

Each package is identified by a unique batch number (LOT), enabling complete traceability throughout:

- raw material receipt;
- manufacturing;
- quality control;
- packaging;
- storage;
- distribution.

Batch records are retained in accordance with the manufacturer's document retention procedures.

33. DISCLAIMER

The information contained in this Technical Data Sheet is based on current technical knowledge, laboratory testing and practical experience available at the date of publication.

The information is intended as guidance for the correct use of the product and does not constitute a contractual guarantee of specific performance under all conditions.

Users are responsible for determining the suitability of the product for their intended application and for ensuring compliance with all applicable regulations.

The manufacturer reserves the right to amend this document without prior notice as product development and technical knowledge evolve.

34. RELATED DOCUMENTS

The following documents form part of the complete technical documentation package for **SOLAR GUARD PRO AQUA TRAPULIN AND RUBBER PAINT**:

- Product Description
- System Specification
- Application Guide
- Application Details
- Packaging Specification
- Product Label Specification
- Safety Data Sheet (SDS)
- Method Statement
- Maintenance Guide
- Repair Procedure
- Declaration of Conformity
- Certificate of Analysis (CoA)
- Product Warranty
- Storage and Transportation Guide