

SBC

SYSTEM SPECIFICATION

SOLAR GUARD PRO AQUA TRAPULIN AND RUBBER PAINT

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1. PURPOSE

This document defines the general system specification, recommended coating system configuration, application requirements and compatible substrates for **SOLAR GUARD PRO AQUA TRAPULIN AND RUBBER PAINT**.

Its purpose is to provide consistent technical guidance for designers, contractors, inspectors and end users involved in the application of the coating system.

2. SYSTEM DESCRIPTION

SOLAR GUARD PRO AQUA TRAPULIN AND RUBBER PAINT is a two-component, water-based polyurethane topcoat system developed for the long-term protection of flexible and semi-rigid substrates.

The coating system consists of:

- Component A: Water-dilutable polyurethane dispersion containing specially selected pigments and performance-enhancing additives.
- Component B: Aliphatic polyisocyanate curing agent.

After mixing in the specified ratio, the coating cures by chemical cross-linking to form a highly flexible, mechanically resistant and weather-resistant protective coating.

3. INTENDED USE

The coating system is intended for structures and substrates requiring:

- long-term surface protection;
- adequate flexibility;
- outdoor weather resistance;
- resistance to ultraviolet (UV) radiation;
- good mechanical performance;
- durable decorative appearance.

4. COMPATIBLE SUBSTRATES

Following appropriate surface preparation, the coating system may be applied to:

- PVC tarpaulins;
- industrial tarpaulins;
- rubber surfaces;
- inflatable rubber boats;
- aluminium;
- galvanized steel;
- wood;
- other compatible substrates.

For substrates not listed above, preliminary compatibility testing or trial application is recommended before use.

5. DESIGN CONSIDERATIONS

The following factors shall be considered when selecting the coating system:

- substrate type;
- substrate flexibility;
- expected mechanical loading;
- ultraviolet (UV) exposure;
- ambient service temperature;
- exposure to rain and moisture;
- potential chemical exposure;
- required service life;
- aesthetic requirements.

The coating system shall always be selected according to the expected service conditions and the characteristics of the substrate.

6. RECOMMENDED COATING SYSTEM

The general coating system consists of:

Layer	Material
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Substrate	Properly prepared substrate
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Topcoat	SOLAR GUARD PRO AQUA TRAPPAULIN AND RUBBER PAINT
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Where a specific substrate requires surface pretreatment, primer or adhesion promoter, these shall be applied in accordance with the relevant technical specification.

6. SURFACE PREPARATION

To ensure proper adhesion and long-term performance, the substrate shall be:

- clean;
- dry;
- free from dust;
- free from grease and oil;
- free from loose or deteriorated coatings;
- mechanically sound.

The appropriate preparation method shall be selected according to the substrate material and its condition.

7. RECOMMENDED SERVICE ENVIRONMENT

The coating system is particularly suitable for use on:

- outdoor structures;
- surfaces exposed to high levels of ultraviolet radiation;
- flexible substrates;
- structures exposed to varying climatic conditions;
- industrial and agricultural applications.

The suitability of the coating system shall always be assessed according to the substrate characteristics and the anticipated service conditions.

8. DESIGN CONSIDERATIONS

- substrate movement
- expected service conditions
- UV exposure
- chemical exposure

- standing water
- mechanical loading

9. APPLICATION REQUIREMENTS

The coating system shall be applied only in accordance with the manufacturer's specified:

- mixing ratio;
- application procedure;
- application conditions;
- curing requirements.

Detailed application instructions are provided in the **Application Guide**.

10. REQUIRED COATING QUALITY

A properly applied coating system shall provide:

- uniform coverage;
- homogeneous surface appearance;
- adequate adhesion to the substrate;
- a surface free from visible defects;
- mechanical and decorative performance suitable for its intended service conditions.

The quality of the finished coating may be verified by visual inspection and, where required, by appropriate laboratory or instrumental testing.

A properly applied coating system shall also provide:

- uniform film thickness;
 - adequate hiding power;
 - complete curing;
 - a surface free from cracking, blistering and delamination;
 - long-term performance under normal service conditions.
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11. LIMITATIONS

The coating system is not recommended for application:

- on improperly prepared substrates;
- on wet or contaminated surfaces;

- outside the manufacturer's specified application conditions.

Technical consultation is recommended for special applications or unusual service environments.

Application is not recommended:

- on frozen substrates;
- on surfaces covered with standing water;
- over insufficiently cured existing coatings;
- on substrates where compatibility has not been verified.

12. RELATED DOCUMENTS

This document forms part of the **SOLAR GUARD PRO AQUA TRAPULIN AND RUBBER PAINT** technical documentation package and shall be used together with the following documents:

- Technical Data Sheet (TDS)
- Product Description
- Application Guide
- Application Details
- Product Label
- Declaration of Conformity
- Packaging Specification
- Storage & Transport Guide
- Maintenance Guide
- Inspection & Acceptance Checklist
- Quality Control Plan
- Method Statement
- Repair Procedure
- Troubleshooting Guide
- Warranty Conditions
- Inspection & Test Record
- Field Application Report
- Commissioning / Handover Record
- Product Compatibility Guide

- Coating System Selection Guide