

GTC Paints Company Ltd.

P.O. Box: 24445 Safat - 13105 - Kuwait
Sabhan Tel.: 24710120 - Fax : 24761261
Shuwaikh Tel.: 24848285 - Fax : 24837138
Capital : K.D. 1,000,000 - C.R.: 20117



شركة أصباغ جي تي سي المحدودة

ص.ب: 24445 الصفاة - 13105 - الكويت
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رأس المال: 1,000,000 د.ك - س.ت: 20117

**** BIO - GUARD ****

PRODUCT DESCRIPTION:-

A specialized functional water based coating formulated to protect susceptible surfaces against fungi, algae and bacteria.

Bio-Guard is available in an eggshell finish which is very durable (among other sheens).

Bio-Guard is a low Voc product and is decorative as well as being functional and protective.

SPECIAL FEATURES:-

- ♦ For exterior / interior use.
- ♦ Excellent dry film protection against fungi, algae and bacteria.
- ♦ Outstanding decorative properties.
- ♦ Superior colour retention.
- ♦ Very good wash ability.
- ♦ High flexibility.
- ♦ Excellent adhesion properties.
- ♦ Excellent weather resistance.
- ♦ Very resistant to humidity.

AREA OF USE :-

As a decorative and protective coat over interior new as well as old surfaces. Excellent for areas where sanitation is important i.e.; Hospitals (Not in operating theatres) stores, hotels, restaurants, bathrooms showers and any other humid area requiring dry film protection.

PRODUCT DATA :-

Finish	: Eggshell sheen (Other sheens upon request).
Colour	: As per GTC colour range (Special colours upon request).
Volume Solids	: 36 % .
Product Weight	: 1.4 kg./ltr.
Rec. Film Thickness	: Wet: : 85 microns per coat (approx 3.4 mils) Dry : 30 microns per coat (approx 1.2 mils).
Theoretical Coverage :	12 m ² /ltr. Practical coverage primarily depends upon nature/degree of surface porosity, method of application and site conditions.
Flash Point	: Non-flammable (water-borne product)

DRYING TIME :

SUBSTRATE TEMPERATURE	TOUCH DRY	HARD DRY	OVERCOATING INTERVALS	
			MINIMUM	MAXIMUM
10 °C (50 °F)	1 hour.	4 hrs.	6 hrs.	IND.
25 °C (77 °F)	30 min.	3 hrs.	5 hrs.	IND.
40 °C (104 °F)	20 min.	2 hrs.	4 hrs.	IND.

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SURFACE PREPARATION:

NEW SURFACES:

1. Degrease areas where grease, oil, soil and other surface contamination exist in accordance with **SSPC-SP1 Solvent Cleaning**. (Use **GTC002 Thinner**).
2. Wire brush/Mechanical Power Tool Clean areas where laitance, surface porosity and loosely adhering foreign material exist in accordance with **SSPC-SP2** and/or **SSPC-SP3 Standards**
3. Surfaces to be coated must be dry, clean and contamination free prior to paint application process.

OLD/PREVIOUSLY PAINTED SURFACES :-

1. Degrease areas where grease, oil and other surface contamination exist in accordance with **SSPC-SP1 Solvent Cleaning**. (Use **GTC002 Thinner**).
2. Remove all blistered, cracked and brittle paint coats off the surface.
3. Detached coats with inadequate adhesion must be properly scraped-off to a firm edge.
4. Glossy paint coatings must be sanded/roughened to ensure proper intercoat adhesion characteristics with successive paint coatings.
5. Surfaces to be coated must be dry, clean and contamination free prior to paint application process.

APPLICATION DETAILS:

♦ USAGE OF BIO-GUARD :

Intended for a **two or three finish coat applications** over suitably sealed/primed and puttied surfaces.

♦ MIXING AND THINNING:

Material must be properly mixed and is recommended for thinning with fresh water only as per below table:-

APPLICATION METHOD	BRUSH/ ROLLER	CONV. SPRAY	AIRLESS SPRAY
Thinning by volume (% Max.)	20%	30%	5%

♦ CLEANING:

For cleaning tools and equipments use **fresh water only**.

APPLICATION CONDITIONS :-

At a temperature ranging **5°C (41°F) to 40°C (104 °F)** . Relative humidity is below **75%**.

STORAGE & HANDLING :-

Product must be stored as per local regulations and should be kept in dry well ventilated location far from heat and direct sunlight. Can should be tightly closed after use. Mix well before use. Storage temperature range between **5°C (41°F) to 40°C (104 °F)**.

FUNGICIDAL – ALGICIDAL - ANTIBACTERIAL ACTIVITY:-

Bio-Guard is an efficient broad-spectrum Anti-fungal / Anti-Algae / Antibacterial coating. It is active against the following main organisms among many others. This is by no means a guarantee of absolute efficacy as the species are too many to be covered by a single preparation.

Bio-Guard is active against many strains of the following species (Among many others).

♦ BACTERIA

- Bacillus subtilis
- Escherichia coli
- Pseudomonas aeruginosa

♦ YEAST

- Candida albican
- Saccharomyces cerevisiae

♦ MOULDS

- Alternaria consortiale.
- Aspergillus niger
- Chaetomium globosum
- Penicillium funiculosum
- Sclerophoma pityophila
- Aspergillus flavus
- Aureobasidium pullulans
- Geotrichum candidum
- Penicillium notatum
- Trichoderma viride

♦ ALGAE

- Anabaena cylindrica
- Chlorella fuse

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IMPORTANT Note :

This product is in no way designed to be used in operating theaters in hospitals.

REGISTRATION:

The active ingredient in Bio Guard meets the Swiss Office of Health, BAG T No. 058874, Poison Class 5 and active ingredients are registered for fungicidal coatings used in the food industry.

STANDARDS & APPROVALS:

Supportive information is available upon request to establish product compliance with a particular specification. **Please consult with GTC Technical Service Dept.**

SAFETY PRECAUTIONS:

The following notes should be considered when using/applying painting material:-

- (a) Take precautions to prevent material entering the eyes (goggles should be worn, irrigate the eyes with water when become contaminated and obtain medical care at once).
- (b) Take precautions to avoid skin contact (gloves should be worn, barrier cream should be used).
- (c) Ensure that repeated contact of paint with skin is avoided.
- (d) Provide adequate ventilation. (Face masks must be worn).
- (e) Keep away from sparks and open flames (for solvent-based materials).

DISCLAIMER:

- ♦ The information given in this data sheet is for guidance only and is done to the best of our knowledge at the date of printing/issuing.
- ♦ GTC reserves the right to change the content of this data without any prior notice.
- ♦ Since we have no control over either the nature or condition of the substrate or different factors which effect the use and application of our products; therefore, no liability can be accepted on basis of this data sheet, unless we specifically agree in writing as to the suitability of the recommended product for the intended purpose; and furthermore, application of this product should be carried out under our control and direct supervision.
- ♦ Product data are subject to change without notice and become void five years from the date of issue.

PACKING : ☐ Gallon
 : ☐ 18 Ltr. Drum
ISSUANCE DATE : August 2017
ORIGIN : Manufacture in Kuwait by GTC Paints Company Ltd.
ADDRESS : **GTC PAINTS COMPANY LTD.**
 P.O.Box 24445 Safat, 13105 Safat, Kuwait
 Tel : 24710120/24710170 - Fax : 24761261 .
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