


**PRODUCT DESCRIPTION**

SI TECH IN-TR Hygiene is a high-quality silk emulsion paint based on 100% pure acrylic polymer and special additives, it gives a smooth finish with good stain resistance, excellent anti-bacterial, anti-microbial, and anti-fungi properties.

**PRODUCT CHARACTERISTICS**

- Excellent resistance to bacteria and microbes especially Escherichia Coli (Ecoli bacteria) and Staphylococcus Aureus.
- Anti-bacterial paint according to ISO 22196:2011
- Superior ability to retain gloss.
- High resistance to stains.
- Durability and long-term endurance.
- Easy application.

(Complies with the Egyptian Standard Specification No. 1539)

**RECOMMENDED USE**

Suits indoor applications.

**TYPE OF SURFACE**

Concrete, Cementitious, and Gypsum surface.

**TECHNICAL SPECIFICATION**

Final Appearance	.....> Silk
Viscosity	.....> $105 \pm 5$ Kreps (at 25°C temperature and 50% humidity) .....> for white color, according to (ASTM D562-10 (2014))
Density	.....> $1.30 \pm 0.05$ gm/cm <sup>3</sup> (at 25°C temperature and 50% humidity) .....> for white color (As per ASTM D 1475-13)
% Solids by Volume	.....> $40 \pm 2$ (for white color)
Washing Resistance	.....> More than 12000 washing cycles, in accordance with the Egyptian Standard Specification No. (1539)
Flash Point	.....> Non flammable
Volatile Organic Compounds	.....> 25 gm/liter (according to Environmental Protection Agency – Method 24)

**METHOD OF APPLICATION**

Diluent/ Cleaner	.....> Water
% Dilution (by volume)	.....> (10 – 15)
Application Tools	.....> Roller, Brush, Sprayer

**INSTRUCTIONS FOR THE USE OF AIRLESS SPRAYER**

Pressure at nozzle	.....> 140 – 190 Kg/cm <sup>2</sup> (2100 psi)
Nozzle head	.....> 0.021 – 0.027
Spray angle	.....> 65° – 80°
Filter	.....> Should be clean

**CERTIFICATES**

- Certificate from Entwicklungs- und Prueflabor Holztechnologie GmbH (EPH) – Germany Confirms that the Product is Classified as Anti-Bacterial Paint according to ISO 22196:2011
- Certificates From the Egyptian National Research Centre confirm that the product can resist bacteria and microbes by 99.9%.
- Certificates are available upon request.

**FILM THICKNESS AND SPREADING RATE**

	Min. Thickness	Max. Thickness	Average
Dry Film Thickness in Micron	40	50	45
Wet Film Thickness in Micron	100	125	112.5
Theoretical Spreading Rate (m <sup>2</sup> /liter)	10	8	9


**SI TECH IN-TR HYGIENE**
**DRYING TIME**

Generally, drying time depends on air draft, temperature, film thickness, selected colors, and number of coats. Data in schedule is measured at 25°C temperature and 50% humidity:

Touch Dry (for white color)	30 minutes (minimum)
Re-coating (for white color)	8 hours (minimum)

**RECOMMENDED COATING SYSTEM**

All the new and old substrates should be cleaned properly to make them free from dirt, grease, oil, wax, etc.

**FOR NEW SUBSTRATES**

- 1 Coat Latex Sealer 1800
- 2 Coats Si Tech IN-TR Hygiene.
- 2-3 Coats Latex Putty.
- 1 Coat Si Tone 700

**FOR PAINTED OLD SURFACES**

Remove loose layers completely, then clean the surface with water and detergent. Make sure that the surface is fully dry and soft then apply:

- 1 Coat Si Tone 700.
- 2 Coats Si Tech IN-TR Hygiene.

**CONDITIONS OF APPLICATION**

The temperature of the substrate should be min.10°C and min.3°C above the dew point of the air, temperature and relative humidity were measured in the vicinity of the substrate.

**GENERAL NOTES**

1. Actual spreading rate depends on many factors like surface condition, effectiveness of application tool, film thickness, surface porosity, surface defects, temperature, quantity lost during application .. etc.
2. Maximum spreading rate for one coat may be realized by minimizing the dry film thickness, and vice versa.
3. Paint should be mixed before use if it is made of different batches.
4. Spreading rate for colors developed in coloring machines depends on selected colors.

**STORAGE**

Two years from production date, provided that proper storage conditions are observed. The product should be stored in compliance with storage instructions. The product should be stored in a cool well-ventilated environment, away from direct sun and heat. The container should be sealed tightly after use.

**HEALTH AND SAFETY**

Please read the protection instructions indicated on the container. Use in well-ventilated environment. Do not breathe or inhale mist. Avoid skin contact. Spillage on skin should be removed immediately with suitable cleanser and water. In case of contact with eyes, flush eye properly with abundant water and seek medical attention immediately. Keep away from the reach of children.

**CLARIFICATION**

The information in this Technical Specification is given to the best of our knowledge. It is based on laboratory tests and practical experience. Sipes takes no responsibility for consequences of breaching the instructions.

The Company reserves the right to change data herein without notice.

Version: January 2023, Sipes Co. This version supersedes prior versions.