



PRODUCT DESCRIPTION

Si shield matt is a superior quality matt water-based paint, made of 100% pure acrylic polymer to provide excellent performance on outdoor surfaces. Available in white color and in a wide range of colors.

PRODUCT CHARACTERISTICS

- Excellent resistance to dust.
- Excellent resistance to ultra-violet radiations, variable temperatures, and pollution.
- Extreme resistance to water, alkalis, and other weather conditions.
- Excellent resistance against Chloride Ions; and protects against concrete liming phenomenon (anti-carbonation).
- High flexibility. It works as a bridge to conceal fine cracks.

(Complies with the Egyptian Standard Specification No. 1539)

RECOMMENDED USE

Suits outdoor applications.

TYPE OF SURFACE

Concrete, Cementitious, and Gypsum surfaces.

TECHNICAL SPECIFICATION

Final Appearance	→	Matt
Viscosity	→	120 ± 5 Kreds (at 25°C temperature and 50% humidity) for white color according to (ASTM D562-10 (2018))
Density	→	1.35 ± 0.05 gm/cm ³ (at 25°C temperature and 50% humidity) for white color according to (ASTM D1475-13 (2020))
% Solids by Volume	→	39 ± 2 (for white color)
Washing Resistance	→	More than 20000 washing cycles, in accordance with the Egyptian Standard Specification No. 1539
Flash Point	→	Non flammable
Volatile Organic Compounds	→	81 gm/liter (according to Environmental Protection Agency – Method 24)

METHOD OF APPLICATION

Diluent	→	Water
% Dilution (by volume)	→	(15 – 20%)
Application Tools	→	Roller, Brush, Sprayer

INSTRUCTIONS FOR THE USE OF AIRLESS SPRAYER

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

FILM THICKNESS AND SPREADING RATE

	Min. Thickness	Max. Thickness	Average
Dry Film Thickness in Micron	30	40	35
Wet Film Thickness in Micron	76.9	102.6	89.75
Theoretical Spreading Rate (m ² /liter)	9 - 13		11



SI SHIELD MATT

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:

Surface Drying for white color	30 minutes (minimum)
Re-coating for white color	4 hours (minimum)

RECOMMENDED COATING SYSTEM

All surfaces (new and old) should be clean and free from dust, oil, fat, ..etc.

FOR NEW SURFACES

- 1 Coat Si Tech XTR Sealer S1
- 1 Coat S7/ Si Tech XTR U1 (indoor/ outdoor).
- 2 – 3 Coats Si Tech XTR Putty.
- 2 Coats Si Shield Matt.

FOR OLD SURFACES

- Use sandpaper first, then clean the surface with water and suitable detergent. Make sure that the surface is fully dry then follow the above application steps.

CONDITIONS OF APPLICATION

Temperature of surface to be painted should not be lower than 10°C and 3°C above dew point. Appropriate air temperature and humidity should be observed.

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 the 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: June 2025, Sipes Co. This version supersedes prior versions.