



## **TECHNICAL DATA SHEET**

Alwan Quik Drying Enamel:

### Product Description:

A high quality one component styrenated alkyd-based paint. It is ideal for industrial, maintenance, and new construction applications. It offers efficiency of application because of its quick drying properties.

### use:

Recommended to be used as a final coat for interior and exterior application at steel facilities such as bridges, warehouses and shopping centers, as well as steelworks, doors, fences, scaffolds and firefighting system.

### properties:

- Quick drying.
- High adhesion property.
- Excellent color and gloss retention.
- Excellent durable and toughness.

### Physical properties:

COLOUR	As per Alwan shade card
FINISH, DRY FILM	Gloss/Sime-Gloss/Matt
VOLUME SOLIDS (ASTM D2697)	44 ± 4%
SPECIFIC GRAVITY	1.05± 0.05
VOC :	434 g/ ltr

### Surface Preparation:

Remove all visible surface deposits such as grease, oils with suitable detergent Remove salt and other contaminants by washing using high pressure fresh water. Any fabrication defects such as weld spatter, delamination, sharp edges and weld slag should be repaired prior to surface preparation. Steel Surfaces: The surface must be prepared according to Sa 2½ (ISO 8501-1)- (NACE No.2/SSPC-SP10), or Sa2 (NACE No.3/SSPC-SP6) or hand and power tool cleaning according to St3(SSPC-SP3).

### Application Condition:

#### Temperature:

- 1) surface: at least (3°C) above dew point.
- 2) ambient: minimum10°C & maximum 43°C.

Relative humidity: maximum 85%.



Paint System:

Primers: Alwan Zinc Phosphate Primer QD, or any other suitable primer Alwan Paints.

Topcoats: Alwan Fast Drying Enamel.

Application Method and Thinning:

Application Method	Airless Spray	Air Spray	Brush/Roller
Thinning (by volume)	(0)%	(10-15) %	(0-5)%
Nozzle Orifice	0.015-0.021"	1.5- 1.8 mm	N/A
Nozzle Pressure	15 MPa ( 2100psi)	29.0-43.5psi	N/A
Spray Angle	40-80o	40-80o	N/A

\* Depends on the weather condition at work place.

\*\* Recommended for stripe coat and small areas

\*\*\* THINNER: Recommended thinner is "Alwan Thinner 778"

Film Thickness and Spreading Rate:

	Minimum		Maximum		Recommended	
	Micron	ml	Micron	ml	Micron	ml
Dray Film thickness (DFT)	20	0.8	75	3	30	1.2
Wet Film thickness (WFT)	45	1.	170	6.77	68	2.7
	m <sup>2</sup> /L	Ft <sup>2</sup> /US gal	m <sup>2</sup> /L	Ft <sup>2</sup> /US gal	m <sup>2</sup> /L	Ft <sup>2</sup> /US gal
Theoretical spread rate	5.87	235.4	22	882	14.67	588

Drying and recoating time:

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly

Relative Humidity:50%

Temperature	25 °C	30 °C	35 °C	40 °C
Surface drying	40 min	25min	20 min	15 min
Hard drought	4 hours	3 hours	2.5 hours	2 hours
Dry to recoat Minimum	6 hours	5 hours	4 hours	3 hours
Dry to recoat Maximum	24 hours	23 hours	22 hours	20 hours

Note: All records given in the table are typical at: recommended film thickness, good ventilation and one coat system. \*The surface should be dry and clean prior to application. The best time to recoat is before previous coat is cured. If this time is exceeded, the surface may need to be roughened slightly



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**Storage and shelf life:**

Shelf life: 24 months @ 25 °C. Storage: The container should be kept in sealed, dry, cool, well-ventilated place and stored in accordance with national regulations

**Handling and Safety:**

Clean up: Use "Alwan Thinner 778" for tools cleaning and in case of spillage, absorb and dispose.

Handling: Handle with care. Stir very well before use.

Health and safety: Please read and follow the precautionary notices displayed on the container, and all caution statements on the MSDS of this product. During application of paint, contact of liquid paint with eyes, skin, inhalation of paint mist and paint vapor should be strongly avoided. For spray application systems; applicator should wear protective clothing, gloves, also eye, skin and respiratory protection are always recommended. Keep away from reach of children.

Ventilation: When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. In addition, respirators must be used by all applicator.

Caution: This product contains flammable solvents, keep away from sparks and open flame. For information on LEL and TLV, please read the MSDS.

Environmental safety: Please donate the leftover paint and packaging to your local authorized institution for usage or recycling purpose.

Note: Wastes and empty containers should be disposed of in accordance with local regulations made under the Control of Pollution Act and the Environmental Protection Act

**Notice:**

To the best of our knowledge, the technical data contained herein is true and accurate as of the date of publication, and is subject to change without prior notice. The user must contact Alwan Saudi Company to verify any modifications before making any changes

Select or order a product. The information provided through these documents is not considered comprehensive and anyone who uses any product contrary to the recommendations contained in these documents or without the approval of the technical support department of

Alwan Saudi Company, this person bears the resulting responsibility. We have no ability to control the quality and conditions of the surface and the host of factors that affect the use or application of the product, so no written or implied warranty is given in these documents. we

We guarantee our products in line with Alwan Saudi Company quality, and we do not accept any responsibility for performance, coverage or injuries resulting from their use. Liability, if any, is limited to replacement of products.

**IMPORTANT NOTE:** These TDS are for information purposes only without any obligation as we do not have control over the quality and conditions of the surface or application.

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