



QD Enamel DTM

Direct to metal alkyd enamel

A single component, solvent based, quick drying, high gloss, modified alkyd primer/finish pigmented with zinc phosphate for added anti-corrosion properties.

Intended Uses:

QD Enamel DTM is used as a single or two coat direct-to-metal coating system as a primer/finish coat for protecting construction and mining heavy machinery, agricultural equipment, railcars, transportation vehicles, material handling and lifting equipment, pumps, valves, gear units, scaffolding, fencing and many other components.

QD Enamel DTM is particularly suited for use as a rapid drying system for fast handling and turnaround times maximising production throughput. This quick drying enamel will dry rapidly at lower temperatures without the need for baking/heating after application.

Properties:

- Easy to use one component product that can be brush applied but is designed for spray application.
- Excellent hiding power and yield.
- High film builds achievable at higher viscosities.
- Quick drying – 10 minutes.
- QD Enamel DTM may be applied at 75µm DFT where additional corrosion protection may be required.

Technical Data:

Colour	Various colours
Finish	Gloss
Density	0.95 Kg/ Litre (For white)
Volume Solids	43% (For white)
Typical Film Thickness	50µm DFT (116µm WFT)
Theoretical Coverage	8.6 m ² / Litre @ 50µm DFT, allow for loss factors
Method of Application	Spray
Flash Point	23°C
Temperature Resistance	Dry continuous – 150°C
Number of Coats	1 – 2 or as required to achieve obliteration or DFT
Viscosity	60 – 65 KU

Drying Information:

	0°C	5°C	10°C	25°C	30°C	40°C
Touch Dry	-	-	-	10 min	-	-
Hard Dry	-	-	-	2 hrs	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	10°C	25°C	30°C	40°C
Minimum	-	-	-	1 hr*	-	-
Maximum	Extended*					

Note:

* See Specialized Coating Systems Definitions and Abbreviations.

* A curing temperature below 10°C is not recommended, adequate ventilation should be maintained during application and curing. The figures quoted above have been determined at the quoted temperature and 50% RH. If overcoat limit is reached the coating must be lightly abraded prior to re-coating.



Surface Preparation:

Accumulated dirt and soluble salts must be removed. Dry bristle brushing will normally be adequate for accumulated dirt. Soluble salts should be removed by freshwater rinsing. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Maintenance & Site Touch-Up

The product is designed for application to surfaces prepared to St2 (ISO 8501-1:2007) or SSPC SP2. When using power tools care should be taken to avoid surface polishing. The product may also be applied to surfaces which have been brush blasted to Sa1 (ISO 8501-1:2007) or SSPC-SP7.

On surfaces prepared to St2 (ISO 8501-1:2007) or SSPC-SP2, brush application will assist surface wetting and improve subsequent coating performance.

Abrasive Blast Cleaning & Mechanical Preparation –Steel (Preferred)

All surfaces to be coated must be dry, clean, and free from contamination. This product should be applied to surfaces prepared by abrasive blast cleaning to Sa 2½ in accordance with International Standard ISO 8501:2007 and SSPC-SP10. A blast profile of 50 – 75µm is recommended or alternatively mechanically abrade the surface using grinding or flapper discs to achieve a similar profile.

Application:

Mixing	Material is supplied in steel containers. This is a one component product and does not require a hardener.		
	Agitate/stir the product well before use to ensure a homogeneous mix and no settlement of pigments.		
	The temperature of the mixed product should preferably be above 10°C, Higher temperatures results in reduced sag resistance and faster cure.		
Pot Life	No limitation. If product thickens, use thinner to reduce viscosity.		
Thinner	Lacquer or QD Thinner	0 – 20% depending on application and product variation	
Airless Spray	Recommended	Tip Range 11 – 17 Thou. Pressure at the tip should not be less than 170 bar (2500 PSI).	
Air Spray	Recommended	Gun	Pressure/Gravity Feed
		Fluid Tip	1.1mm to 1.6mm
Brush/Roller	Suitable	Typically, 40 – 50µm can be achieved	
Work Stoppage	Thoroughly flush all equipment with Lacquer or QD Thinners . All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered, and viscosity re-adjusted before used.		
Clean Up	Clean all equipment immediately after use with Lacquer or QD Thinners . It is good working practice to periodically flush out the spray equipment during the course of the working day. Frequency of cleaning will depend upon the amount sprayed, temperature and elapsed time, including delays.		

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	5°C*	10°C	No lower limit
Maximum	40°C	45°C	85%

* Or 3°C above dew point



Limitations:

- This product is not intended for use in aggressive, corrosive environments or on heavily pitted or contaminated steel.
- This product is not recommended for use in continuous immersion conditions.
- Over-application will extend both the minimum overcoating periods and handling times and may be detrimental to long term overcoating properties.
- Do not apply if temperature is less than 10°C, relative humidity exceeds 85% or temperature is within 3°C of dew point.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- When applying QD Enamel DTM by brush or roller it may be necessary to apply multiple coats to achieve the total specified film thickness of 50µm DFT.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

Pack Size:

20 Litres, 4 Litres.

Storage:

- Shelf Life: 12 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.
- Store at temperatures between 5°C and 35°C.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.