



GLASSGO PAINTS

— PAINT MANUFACTURERS —

G-THANE DTM

PU 4:1:1



GLASSGO PAINTS
PAINT MANUFACTURERS

GLASSGO TECHNICAL DATA SHEET

NAME: G-THANE DTM PU

CODE: DTM PU

DATE ISSUED: 25/04/2018



SECTION 1: MANUFACTURER

Glassgo Paints (Pty) Ltd.
Registration No. 2005/005928/07

SECTION 2: DESCRIPTION

Product Name: G-Thane Direct to Metal PU
GL-: DTM PU
Date Issued: 25/04/2018

SECTION 3: PRODUCT BENEFITS

- FORMULATED FOR USE WITHOUT THE NEED OF A PRIMER.
- EXCELLENT CORROSION RESISTANCE, HARD WAREING, EXCELLENT DURABILITY AND RESISTANCE TO MANY CHEMICAL & SOLVENT SPLASHES.
- GOOD GLOSS RETENTION
- IMPACT RESISTANT: EXCELLENT
- EXCELLENT RESISTANCE TO THE ELEMENTS OF NATURE
- HIGH DFT.
- EXCELLENT ADHESION
- EXCELLENT UV RESISTANCE

SECTION 4: SUBSTRATES

- Mild steel
- Galvanised steel
- Aluminium

SECTION 5: PREPARATION

For best results, steel needs to be sandblasted. For new steel, ensure substrates are free from dust, oil, grease or any other contaminants. Steel needs to be abraded and cleaned with Glassgo Presol.

SECTION 6: TECHNICAL DATA

Type:	Hydroxy Acrylic Based
Gloss Level:	Good Gloss Retention
Recoating Time:	Once Fully Cured
Viscosity:	80 - 100ku 3min - 5min uni-thinned, depending on colour
Practical Spread Rate:	5 - 8m ² per coat @ 100 micron DFT
Specific Gravity:	1,0 - 1,18 depending on colour
Solid by volume:	50 - 60% depending in colour
Solid by Mass:	55 - 70% depending on colour
Drying Time:	4 Hours touch dry. 24 Hours hard dry. Full cure after 5 days depending on temperature and no. of coats.
Recommended DFT:	100 - 150 microns on 2 even coats - DFT Depending on colour.
Pot life:	± 2 - 3 hours at 25°C (Dependent on temperature and colour)

SECTION 7: COLOUR RANGE

A wide range of colours and a full range of toners to choose from.

SECTION 8: METHODS OF APPLICATION

- Conventional hold - 2 wet even coats @ 2 - 3 bar air pressure, 40 min flash off between coats.
- Airless - 1 or 2 wet even coats. 100 - 14 bar. Pump Ratio 32:1 Tip 0.007 - 0.015 40 minutes between coats.
- Air Assisted - 1 or 2 even coats. 70 - 100 bar pressure. Pump Ratio - 32:1. Tip 0.007 - 0.015 40 minutes between coats.

SECTION 9: MIXING RATIO

4 Part paint, 1 Part hardener, 1 Part Thinner.

SECTION 10: CLEAN UP

LAQUER THINNERS

SECTION 11: PRECAUTION

- Use in well ventilated areas.
- Highly flammable.
- Goggles and respirators to be worn in confined areas.
- Avoid skin contact.

SECTION 12: PACKAGING

4LT Paint, 1LT Hardener & 1LT Thinners.

SECTION 13: FLASHPOINT

25°C



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DISCLAIMER

Glassgo Paints G-Thane DTM PU's are manufactured in such a way that they are only compatible with Glassgo Paints G-Thane DTM PU catalyst and thinner.

Therefore we will not accept liability for product failure or any loss or damage incurred if the product is not used with our compatible products.



GLASSGO PAINTS
PAINT MANUFACTURERS

MATERIAL SAFETY DATA SHEET

NAME: G-THANE DTM PU

CODE: DTM PU

DATE ISSUED: 25/04/2018



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Name: G-Thane DTM PU Code: DTM PU Date Issued: 2016/10/08

CAS no.: N/A EC no.: N/A

UN No.: 1263 EAC:127 Hazchem: 3[M]E Kemier: 30 SAPMA: 2-H-E

In an emergency contact Glassgo (Chief Chemist) at +27-(0)-11-832-5384.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

EC Classification: F Xn R11, 20/21, 65, 38, S36/37, 02, 13, 16, 43A, 51, 62

HAZARDOUS AND/OR OTHER RELEVANT COMPONENTS:
XYLENE > 20%

[CAS #: 1330-20-7] [E.C. #: 601-022-00-9]
EEC Labels: XN OEL 435mg OEL 100ppm STOEL 650mg
STOEL 150ppm RL + S

TOLUENE

[CAS #: 108-88-3] [E.C. #: 601-021-00-3]
EEC Labels: F XN OEL 188mg OEL 50ppm STOEL 560mg
STOEL 150ppm RL + S

(CL/RL = Controlled/Recommended level 'S' = Skin annotation)

SECTION 3: HAZARD IDENTIFICATION

SAPMA Health Rating: 2-Moderate - Temporary or minor injury possible even if treatment given.

Inhalation: Irritating, narcotic. Can affect CNS.

Skin: Irritating, risk of dermatitis. May be absorbed.

Eyes: Irritating.

Ingestion: Irritating and nauseating.

No Carcinogenic, mutagenic or genetic effects established.

May have short term environment effect. Contain, monitor & Remove.

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. In case of discomfort seek medical attention.

Skin: Use hand cleaner/soap & water. Remove contaminated clothing.

If any discomfort get medical attention.

Eyes: Rinse immediately with plenty of water. Seek medical advice.

Ingestion: Wash mouth with plenty of water. Do NOT induce vomiting. Seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Highly flammable with toxic fumes.

Containers can burst in a fire. Can form explosive vapour/air mixture. Static discharge hazard!

Foam, Dry Powder. Fog to cool and control. Do NOT use water jets.

Cool containers in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES - SEE ALSO SECTIONS 5, 8, 13

Contain & collect. Keep out of drains and sewers.

SECTION 7: HANDLING AND STORAGE

Store separately from any reactive substances - oxidisers in particular.

No open flames. No smoking. No Sparks.

Keep containers cool. Avoid free fall of liquid - use earthing.

Subject to local bylaws.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

SAPMA Rating: 2-H-E PPE: Respirator and Eye Protection.
Inhalation: In case of sufficient ventilation, use suitable respiratory protection.

Skin: Use barrier cream and impervious gloves.

Eyes: Use face shield or goggles. Avoid direct contact.

Ingestion: Observe the rules of hygiene. Wash before eating, drinking or smoking.

OEL Type: Mixture- Mixture - See Section 2 Skin annotation.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

Chemical class: PAINT	Description: Viscous Liquid	Smell: Pungent
Visc. : 80-100KU's	SG: 0.94 - 1.15	pH: l.b.e
NV:	Boil. pt (°C): 32°C	FlashPoint (°C): 25°C

SECTION 10: STABILITY AND REACTIVITY

Stable under normal conditions.

Could generate static - USE EARTHING.

Inert - no reaction with fire-fighting water.

SECTION 11: TOXICOLOGICAL INFORMATION

No carcinogenic, mutagenic or genetic effects established.
LD50 Oral.

SECTION 12: ECOLOGICAL INFORMATION

May have short term environmental effects. Contain, monitor & remove.

SECTION 13: DISPOSAL INFORMATION

Use reputable waste disposal contractors. Exercise caution in disposal of used containers.

SECTION 14: TRANSPORT INFORMATION

UN No.: 1263	PAINT PRODUCT	
Packing group: II	IMO Class: 3:2	
EAC: 127	Hazchem: 3[M]E	Kemier: 30

SECTION 15: REGULATORY INFORMATION

EC no.: n/a Contains: XYLENE, TOLUENE

EC Classification: F Xn R11, 20/21, 65, 38, S36/37, 02, 13, 16, 43A, 51, 62

R11 - Highly Flammable

R20/21 - Harmful by inhalation and contact with the skin.

R65 - Harmful: May cause lung damage if swallowed.

R38 - Irritation to the skin.

S36/37 - Wear suitable protective clothing and gloves.

S2 - Keep out of reach of children. (Retail sales items)

S13 - Keep away from food, drink and animal feeding stuffs.

S16 - Keep away from sources of ignition - No smoking.

S43A - In case of fire, use water fog, foam or powder - Do not use water jets!

S51 - Use only in well ventilated areas.

S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.



SECTION 16: OTHER INFORMATION

TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES. IN CASE OF MANY DISCOMFORT ALWAYS SEEK MEDICAL ADVICE.

This MSDS conforms with General Administrative Regulations of 6 Sept 1996 (ISO-11014/ANSIZ400.1.1996) OELs derived from OHS Act Regulations for Dangerous Chemical Substances of 25 Aug. 1995 (EH-42).

SAPMA Rating - South African Paint Manufacturers Association Guide to Health Hazards (SABS ARP 006:1991)

No responsibility is accepted for errors or omissions or the consequences thereof.



LAB REPORT

DATE: 28/11/2017 REQUESTED BY: IAN CAMPBELL

PROJECT NO - 515

CUSTOMER: GLASSGO PAINTS

QUV and salt spray testing of prepared samples from Glassgo

Angelo Industrial Estate, Main Reef Road, Boksburg, 1459

INTRODUCTION

The QUV work is carried out to determine the durability of the applied coating.

EXECUTIVE SUMMARY

Test work to be carried out on:

- 3 panels brought to the labs from Glassgo. 1 panel with PU paint for (DTM PU 4:1:1) QUV. 2 panels applied with PU (DTM PU 4:1:1) for salt spray testing.
- The DTM PU panels have gone slightly darker after 1000 hours of exposure.
- Salt spray panels DTM white 4:1:1 and DTM grey 4:1:1. The salt spray panels have done 1000 hours without failure.

RESULTS

Table 1, QUV readings and comments after 1000hrs hours of exposure.

PANEL	GLOSS INITIAL	GLOSS AFTER 1000 HOURS	COLOUR AND DE READINGS AFTER 1000HOURS.	VISUAL OBSERVATION AFTER THE 1000 HOURS EXPOSURE.
DTM PU 4:1	20° : 59 60° : 84 85° : 93	20° : 32.8 60° : 68.5 85° : 78.6	L : -0.609 D a : -0.053 G b : -0.249 B dE : 0.660 F	The coating is slightly darker and dropped in sheen.

CONCLUSION

1000 hours QUV results:

The DTM PU 4:1 thus far does not show any damage to the coating.

Salt Spray Testing:

Both panels do not show any corrosion creep after 1000 hours without failure.

Dry Film Thickness:

Please find below the readings obtained by conventional spray application:

WHITE	GREY
122 mic	115 mic
119 mic	115 mic
125 mic	114 mic
123 mic	113 mic
117 mic	114 mic
113 mic	115 mic
117 mic	117 mic
Average 119.43 mic	Average 114.72 mic

