

DYMAX

Light-Cure Technology

UV & LED-Curable Adhesives · Conformal Coatings · Encapsulants

Ruggedized Materials · SpeedMask® Maskants · Curing Systems

Presented by **Lily Sanarajoo** | Sales Manager, GME Chemtech Sdn Bhd (Biesterfeld Group)

EMAX 2026 · SPICE Convention Centre, Penang · 22–24 July 2026

MIL-I-46058C

IPC-CC-830B

ISO 10993

NASA MAPTIS

REACH / RoHS

Why Dymax? The Light-Cure Advantage

Process benefits vs thermal and solvent-based alternatives

S

Speed

- Cure in 1–5 seconds
- vs 30+ sec thermal
- Eliminates ovens & racks
- Shorter cycle times

Q

Quality

- See-Cure® cure validation
- Ultra-Red® bond inspection
- No mixing errors (1-part)
- Consistent viscosity

C

Compliance

- IBOA-free & TPO-free
- CMR-free medical grades
- Halogen-free IEC 61249-2-21
- REACH SVHC registered

E

Efficiency

- On-demand cure
- Small floor footprint
- No solvent waste
- LED reduces energy cost

Dymax Product Portfolio — GME Chemtech Malaysia

Six product families across EMS, medical, aerospace & defence applications

92xx-W Series

Consumer Electronics
Wearables

- 9201-W · 9202-W
- 9210-W · 9211-W
- IBOA-free & TPO-free
- Smartwatch / AR / Earbuds

2000-MW Series

Medical Wearable
Assembly

- 2022-MW · 2101-MW-UR
- 2103-MW-UR
- ISO 10993 certified
- Ultra-Red® fluorescing

1045-M

Prefillable Syringe &
Injection Devices

- Glass / SS needle-to-hub
- ETO & gamma resistant
- Very low extractables
- GB/T 14233 compliant

Conformal Coatings

Avionics & PCB
Protection

- MIL-I-46058C approved
- IPC-CC-830B · UL 94V-0
- NASA MARTIS listed (9771)
- Halogen-free grades

Encapsulants & Ruggedising

PCB Assembly

- See-Cure® validation
- BGA/CSP ruggedising
- Flexible & rigid grades
- Low outgassing (9773)

SpeedMask® & Equipment

MRO Surface Treatment
& Curing Systems

- 16 maskant grades
- UVCS V3.0 conveyor
- BlueWave® spot/flood
- SD-200 dispenser

Consumer Electronics Wearables — 92xx-W Series

IBOA-free & TPO-free · UV/LED cure · Skin-proximity safe

9201-W

High Viscosity Encapsulant

- UV + moisture dual-cure
- Viscosity: 25,000–40,000 mPas
- Hardness: A45 (light) / D20-D40 (+moisture)
- Cold storage: 1–5°C

Applications:

FPC encapsulation · Wire bond · Component protection

9202-W

Optical Positioning Adhesive

- UV/LED 405nm cure
- Viscosity: 200,000 mPas
- Hardness: D80
- Low shrinkage

Applications:

Optical alignment · Lens positioning · AR/VR glasses

9210-W

Light/Moisture Encapsulant

- LED 365/405nm + moisture
- Viscosity: 29,000 mPas
- Hardness: D55–D75
- Deep depth of cure

Applications:

PCB selective protection · Thermal shock resistance

9211-W

Camera Module Adhesive

- LED 365/385/405nm
- Viscosity: 20,000 mPas
- Hardness: D63
- Low stress/low shrinkage

Applications:

CCM assembly · Plastic bonding · Camera barrel

All 92xx-W products in Limited Release. Contact Lily Sanarajoo to confirm availability and arrange sample material for production trials.

Medical Wearable Assembly — 2000-MW Series

ISO 10993 certified · CMR-free · Ultra-Red® fluorescing

ISO 10993-5 Cytotox

ISO 10993-10 Sensitisation

ISO 10993-23 Irritation

CMR-Free (2103-MW-UR)

IBOA-Free · TPO-Free

2022-MW

Cure: **Broad Spectrum**

Viscosity: **750 cP**

Hardness: **D60**

Water absorption: **0.5%**

Depth of cure up to 38mm (1.5")

Sensor potting · Housing assemblies · Medical smart devices · Large volume injectors

2101-MW-UR

Ultra-Red®

Cure: **405nm LED**

Viscosity: **5,500 cP**

Hardness: **D77**

Water absorption: **2.1%**

High modulus & elongation (tough)

Patient monitoring · CGM · LVI · Medical device assembly

2103-MW-UR

Ultra-Red® + CMR-Free

Cure: **405nm LED**

Viscosity: **5,500 cP**

Hardness: **D70**

Water absorption: **0.1% ✓ lowest**

CMR-free + H317 monomer-free · Rapid cure

Hearing aids · Diabetes monitors · Wearable injectors · Sleep monitors

Avionics & PCB Assembly — Conformal Coatings & Encapsulants

MIL-I-46058C · IPC-CC-830B · NASA MAPTIS · Halogen-free

Conformal Coating Selector

Product	Viscosity	Key Feature	Approvals
9-20557	2,300	Low modulus · thermal cycling · blue FL	MIL-I-46058C · IPC-CC-830B · UL94V-0
9771	780	Low outgassing ASTM E595 · low ionic	MIL-I-46058C · NASA MAPTIS 09841
9481-E-PZ	115	High chem & abrasion resistance	MIL-I-46058C · IPC-CC-830B · UL94V-0
9483-Z	750	Thermal shock resistant · corrosion	MIL-I-46058C · IPC-CC-830B · UL94V-0
9452-FC	20	Ultra-low viscosity film/flow coat	LED curable · excellent thermal shock

PCB Assembly Applications

BGA/CSP Ruggedising

9309-SC · 9422-SC · 9773

Wire Tacking

9037-F · 9-911-REV-B

Glob Top Encapsulation

9014 · 9001-E-V3.0

Potting

6-621 · 921-T

Peelable Masking

9-7001-REV-A · 9-318-F

Sensor Camera Module

OP-29-GEL · 9802 · 9671

SpeedMask® Maskants & Curing Equipment

Surface treatment protection · UVCS V3.0 conveyor · BlueWave® systems

SpeedMask® — UV-Curable Maskants for MRO

Replace tape, wax & lacquers. Cure in seconds. Remove by peeling or incineration.

Grade	Removal	Processes	Hardness
718	Incineration	HVOF / APS flame spray	D80
728-G	Peel or Incin.	Anodising · plating · acid strip · grit blast	D55
750-SC	Peel or Incin.	Anodising · plating · See-Cure® colour change	A85
758-H	Peel or Incin.	Nitric/HCl acid · LED 405nm optimised	A80
706	Incineration	High adhesion · cavity protection · acid	D75

Curing Equipment

UVCS V3.0 LED Conveyor

- 8" HMI touchscreen · CE compliant
- Belt 0.4–7.8 m/min · Reversible
- Auto part sensing · PLC control
- Horizontal & vertical lamp configs

BlueWave® Spot Lamps

- BW-200: adjustable UV intensity
- BW MX-150: 365/385/405nm LED
- BW QX4®: 4-head controller

Flood & Dispensing

- ECE 5000: 225 mW/cm² · 12.7×12.7cm
- AX-550 LED: 800 mW/cm² flood
- SD-200 syringe dispenser
- eco-PEN450 precision dosing

Ready to Trial Dymax?

GME Chemtech is your authorised Dymax distributor in Malaysia & Southeast Asia



Request Samples

10ml or 30ml syringes for
production trials · cold-chain
delivery available



Technical Docs

TDS · SDS · ISO 10993 reports
Halogen-free reports · REACH
declarations on request



Application Trial

Dymax application engineering
support for substrate testing
and process optimisation



Compliance Review

Restricted substance check
IBOA/TPO/CMR screening
for your OEM requirements

Lily Sanarajoo | Sales Manager — GME Chemtech Sdn Bhd (A Biesterfeld Group Company)

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