



CATALOGUE

# ST. THERMOPLASTIC

SAUJANA TERAJU ENTERPRISE  
(001412031-M)



THERMOPLASTIC ROAD MARKING MATERIAL



Company Address :  
Lot 16846 PTD 19189 Mukim Ulu Benut,  
86200 Simpang Renggam, Kluang, Johor Darul Takzim, Malaysia.



Branch : No. 18, Jalan Mutiara Emas 6/5, Taman Mount Austin, 81100 Johor Bahru, Johor



Email: [stsaujana@gmail.com](mailto:stsaujana@gmail.com)



Tel: +6077541008 (Office)  
H/P: +60127204243 (Line 1) | +60197565411 (Line 2)



Website: <http://www.stsaujana.com>



# ST. THERMOPLASTIC

## CORPORATE OVERVIEW

*A trusted company in terms of quality & competitiveness nationally*

S.T Thermoplastic is wholly owned by a Bumiputera company; Saujana Teraju Enterprise (0001412031-M) that was established since May 22, 2003. Through extensive experience and knowledge in vast engineering backgrounds, the company has produced high quality products, with efficient application procedures, and outstanding durabilities, making the Malaysian people proud.

## CORPORATE MISSION

To compete in the competitive market of both the government and private sectors. The company will also ensure that the level of performance of the company will continue to move forward in line with other major companies in Malaysia.

## CORPORATE VISION

The aim is to make this company a strong Bumiputera company through the production of quality and reliable products. Thus, the company are able to provide more employment opportunities to the community.





**ST. THERMOPLASTIC**

# CORPORATE DETAILS

Name of Company	Saujana Teraju Enterprise
Company Registration No.	001412031-M
Date of Establishment	23 May 2003
Company Address	Lot 16846 PTD 19189 Mukim Ulu Benut, 86200 Simpang Renggam, Kluang, Johor Darul Takzim.
Mobile Phone No.	+6012.720.4243 (Line 1) +6019.756.5411 (Line 2)
Office No.	+607.7541.008
Email Address	stsaujana@gmail.com
Registered Agencies	<ul style="list-style-type: none"><li>- Ministry of Finance (MOF) Registration No. (357-02114801)</li><li>- Sijil Akuan Bumiputera (Kewangan) Registration No. (357-02114801)</li><li>- Construction Industry Development Board (CIDB) Malaysia Registration No, (0120100407-JH128685) Grade CE (CE21 CE01 CE36), B-B04 &amp; B24, CE34 &amp; CE42 G3 Not More Than 1,000.000.00</li><li>- SPKK &amp; PKK (Grade G3) Registration No. (0120100407-JH128685)</li><li>- Johor Centre for Construction Development (JCCD) Registration No. (JCCD/SKJ/20/03/00230)</li></ul>

**ST. THERMOPLASTIC**

**ISO 9001 : 2015  
CERTIFICATE**



SAUJANA TERAJU



Certificate No. : MYQ12227629

This certificate has been

Awarded to

**SAUJANA TERAJU ENTERPRISE**

Which is located at

**LOT 16846, PTD 19189, MUKIM ULU BENUT, 86200 SIMPANG RENGAM, JOHOR, MALAYSIA.**

On Standard

**ISO 9001 : 2015**

Which the organization stated above had been assessed and found to be in accordance with the requirements of international Quality Management System.

**SAUJANA TERAJU ENTERPRISE**  
Under the Scope of

**PEMBUATAN BAHAN BINAAN UNTUK THERMOPLASTIC ROADLINE MARKING.**

Original Issued Date : **28<sup>th</sup> December 2022**

Effective Date : **28<sup>th</sup> December 2022**

Expiration Date : **27<sup>th</sup> December 2025**

*Note: The sticker on the right top corner indicates the validity of the certificate. The expiry of the certificate will be superseded once the sticker is not present on particular year even though not expired yet.*

This certificate will be null and void if at any circumstances the compliance towards the standards stated above is not fulfilled. The compliance of the standards stated above will be indicated by the labelling on the right corner indicating the year of assessment. The validity of the certificate can also be traced to the audit report generated for each every assessment or through our website [www.carecert.net](http://www.carecert.net)



ACB QMS 13

**Fleming Teo**  
Managing Director  
CARE Certification International (M) Sdn. Bhd.

CARE Certification International (M) Sdn. Bhd.

No 16-1 Jalan Flora 1/1, Blossom Square Bandar Rimbayu, 42500 Telok Panglima Garang, Selangor, Malaysia.

Email: [carecertification@cciglobe.com](mailto:carecertification@cciglobe.com)

# ST. THERMOPLASTIC PRODUCT CERTIFICATION LICENSE (BS 3262)



No Lesen : PC012299

Licence No :

## LESEN PENSIJILAN BARANGAN *Product Certification Licence*



SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada  
*SIRIM QAS International Sdn. Bhd. hereby grants to*

SAUJANA TERAJU ENTERPRISE  
LOT 16846  
PTD 19189 MUKIM ULU BENUT  
86200 SIMPANG RENGGAM  
JOHOR, MALAYSIA

Lesen untuk menggunakan Tanda Pensijilan di atas barangan  
*a licence to use the Certification Mark on*

**HOT APPLIED THERMOPLASTIC ROAD MARKING MATERIALS**

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan  
*as complying with*

BS 3262 : PART 1 : 1989

ST.THERMOPLASTIC

**Nur Fadhilah binti Muhammad**  
Ketua Pegawai Eksekutif  
*Chief Executive Officer*  
SIRIM QAS International Sdn. Bhd.



SIRIM QAS International Sdn. Bhd.  
(No. Syarikat 199601037981(410334-X))

1, Pensiaran Dato' Menteri  
Seksyen 2, Peti Surat 7035  
40700 Shah Alam  
Selangor Darul Ehsan  
MALAYSIA.

Tel : 603-5544 6400  
Emel : [cserviceqas@sirim.my](mailto:cserviceqas@sirim.my)

<https://www.sirim-qas.com.my>  
<https://www.malysiancertified.com.my>

Tarikh Mula Pensijilan : 27 January 2023

*Certified Since*

Sah Sehingga : 27 January 2025

*Valid Until*

Tarikh Dikeluarkan : 04 January 2024

*Issue Date*

No Siri : 093423

*Serial No*

Lesen ini danugerahkan tertakluk kepada syarat-syarat Perjanjian Pensijilan Barangan SIRIM QAS International Sdn. Bhd.  
*This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.*

# ST. THERMOPLASTIC PRODUCT CERTIFICATION LICENSE (MS 1303)



No Lesen : PC012298

Licence No :

## LESEN PENSIJILAN BARANGAN *Product Certification Licence*



SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada  
*SIRIM QAS International Sdn. Bhd. hereby grants to*

SAUJANA TERAJU ENTERPRISE  
LOT 16846  
PTD 19189 MUKIM ULU BENUT  
86200 SIMPANG RENGGAM  
JOHOR, MALAYSIA

Lesen untuk menggunakan Tanda Pensijilan di atas barangan  
*a licence to use the Certification Mark on*

**HOT APPLIED THERMOPLASTIC ROAD MARKING MATERIALS**

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan  
*as complying with*

MS 1303 : PART 1 : 1993

ST.THERMOPLASTIC

**Nur Fadhilah binti Muhammad**  
Ketua Pegawai Eksekutif  
*Chief Executive Officer*  
SIRIM QAS International Sdn. Bhd.



SIRIM QAS International Sdn. Bhd.  
(No. Syarikat 199601037981(410334-X))

1, Persiaran Dato' Menteri  
Seksyen 2, Peti Surat 7035  
40700 Shah Alam  
Selangor Darul Ehsan  
MALAYSIA.

Tel : 603-5544 6400  
Emel : [cserviceqas@sirim.my](mailto:cserviceqas@sirim.my)

<https://www.sirim-qas.com.my>  
<https://www.malysiancertified.com.my>

Tarikh Mula Pensijilan : 27 January 2023

*Certified Since*

Sah Sehingga : 27 January 2025

*Valid Until*

Tarikh Dikeluarkan : 04 January 2024

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*Serial No*

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*This Licence is granted subject to the provisions of the Product Certification Agreement of SIRIM QAS International Sdn. Bhd.*

# ST. THERMOPLASTIC RMAL : ROAD MATERIAL APPROVED LIST



## ST ALL WEATHER THERMOPLASTIC

LAMPIRAN A



**KEPUTUSAN MESYUARAT JAWATANKUASA BERSAMA (JKR-LLM)  
KELULUSAN PRODUK BAGI KERJA-KERJA JALAN BIL. 3/2023**

NO. PERMOHONAN	: 028/2023
SYARIKAT	: Saujana Teraju Enterprise
PRODUK	: <i>St. All Weather Thermoplastic - EN 1436/ 1871</i>
MODEL/ JENAMA	: <i>White and Yellow</i>
BAHAN	: <i>Road Marking Materials- Paint, Thermoplastic and Cold Plastic Material</i>
PENGILANG	: Saujana Teraju Enterprise
KEPUTUSAN	: <b>LULUS</b>
SAH SEHINGGA	: <b>9 Mei 2025</b>

**ULASAN:**

1. Produk *St. All Weather Thermoplastic - EN 1436/ 1871* didapati mematuhi spesifikasi piawaian dan ujian yang dilaksanakan seperti berikut:
  - a. *Standard Specification for Road Works Section 6: Road Furniture*
  - b. *BS EN 1436:2018 - Road marking materials. Road marking performance for road users and test methods*
  - c. *BS EN 1871:2020 - Road marking materials. Paint, thermoplastic and cold plastic materials. Physical properties.*

# ST. THERMOPLASTIC RMAL : ROAD MATERIAL APPROVED LIST



## ST RUMBLE STRIP

LAMPIRAN A



**KEPUTUSAN MESYUARAT JAWATANKUASA BERSAMA (JKR-LLM)  
KELULUSAN PRODUK BAGI KERJA-KERJA JALAN BIL. 3/2023**

NO. PERMOHONAN	: 026/2023
SYARIKAT	: Saujana Teraju Enterprise
PRODUK	: <i>St. Rumble Strip - EN 1436/ 1871</i>
MODEL/ JENAMA	: <i>St. Thermoplastic Anti Skid Material</i>
BAHAN	: <i>Road Marking Materials- Paint, Thermoplastic And Cold Plastic Material</i>
PENGILANG	: Saujana Teraju Enterprise
KEPUTUSAN	: <b>LULUS</b>
SAH SEHINGGA	: <b>9 Mei 2025</b>

**ULASAN:**

1. Produk *St. Rumble Strip - EN 1436/ 1871* didapati mematuhi spesifikasi piawaian dan ujian yang dilaksanakan seperti berikut:
  - a. *Manual Fasiliti Keselamatan Jalan JKR*
  - b. *BS EN 1436:2018 - Road marking materials. Road marking performance for road users and test methods*



# ST. THERMOPLASTIC RMAL : ROAD MATERIAL APPROVED LIST



## ACTIVE SUPPLIER / MANUFACTURER



### ROAD MATERIAL APPROVED LIST R M A L

**Pengumuman**

Perhatian kepada semua pembekal, pengedar dan pengilang untuk pendaftaran kelulusan produk baru diminta untuk mengemukakan dan maklumat-maklumat berkaitan sebanyak tiga(3) salinan hardcopy borang permohonan dan dokumen yang lengkap kepada Bahagian Pembangunan Inovasi Dan Standard.

1 2 3

**Menu Utama**

- Muka Depan
- Profil
- Rujukan
- Download Borang
- Q & A

#### DETAIL PEMBEKAL/PENGILANG YANG AKTIF

Nama Syarikat	SAUJANA TERAJU ENTERPRISE
Alamat	LOT 16846, PTD 19189 MUKIM ULU BENUT
Negeri	JOHOR
Bandar	SIMPANG RENGAM
Poskod	86200
No Tel	0127204243
No Fax	
Email	stsaujana@gmail.com
Website	stsaujana.com

Displaying 1-2 of 2 results.

No	No Permohonan	Nama Barang	Status Syarikat	Jenama	Perincian
1	026/2023	ST. RUMBLE STRIP - EN 1436/1871	PENGILANG	ST. THERMOPLASTIC	
2	028/2023	ST ALL WEATHER THERMOPLASTIC - EN 1436/1871	PENGILANG	ST. THERMOPLASTIC	

# ST. THERMOPLASTIC RMAL : ROAD MATERIAL APPROVED LIST



## ST ALL WEATHER THERMOPLASTIC



### ROAD MATERIAL APPROVED LIST

### R M A L



**Pengumuman**

Perhatian kepada semua pembekal, pengedar dan pengilang untuk pendaftaran kelulusan produk baru diminta untuk mengemukakan dan maklumat-maklumat berkaitan sebanyak tiga(3) salinan hardcopy borang permohonan dan dokumen yang lengkap kepada Bahagian Pembangunan Inovasi Dan Standard.

MAKLUMAN Soalan: Adakah permohonan pendaftaran kelulusan produk/bahan ini adalah diwajibkan kepada semua pembekal, pengedar dan pengilang? Jawapan: Tidak. Permohonan yang dikemukakan oleh pembekal, pengeluar dan pengilang bagi

**Menu Utama**

- Muka Depan
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- Q & A

**Maklumat Bahan/Barangan**

Carian

### MAKLUMAT BAHAN/BARANGAN YANG DILULUSKAN

<b>Keterangan Barangan</b>	ST ALL WEATHER THERMOPLASTIC - EN 1436/ 1871
<b>Kod Barangan</b>	JJ031401.MJ159.J171
<b>Nama Syarikat</b>	SAUJANA TERAJU ENTERPRISE
<b>Status Syarikat</b>	PENGILANG
<b>Alamat</b>	LOT 16846, PTD 19189 MUKIM ULU BENUT 86200 SIMPANG RENGGAM, JOHOR
<b>No Telefon</b>	0127204243
<b>No Fax</b>	
<b>Jenama</b>	ST. THERMOPLASTIC
<b>No Laporan</b>	028/2023
<b>Tarikh Tamat</b>	09-05-2025
<b>Rujukan</b>	
<b>Catatan</b>	Mesyuarat JBKJP Bil.3/2023 pada 10 Mei 2023 telah memutuskan bahawa permohonan produk St. All Weather Thermoplastic - EN 1436/ 1871 adalah LULUS berkuatkuasa dari 10 Mei 2023 hingga 9 Mei 2025.
<b>Negara</b>	MALAYSIA

Bil	Model	Column Name	Gambar
1	WHITE, YELLOW		

Senarai Dokumen Berkaitan :

Bil	Nama Dokumen	File
1	ST ALLWEATHER.pdf	

# ST. THERMOPLASTIC RMAL : ROAD MATERIAL APPROVED LIST



SAUJANA TERAJU

## ST RUMBLE STRIP



### ROAD MATERIAL APPROVED LIST R M A L

**Pengumuman**

Perhatian kepada semua pembekal, pengedar dan pengilang untuk pendaftaran kelulusan produk baru diminta untuk mengemukakan dan maklumat-maklumat berkaitan sebanyak tiga(3) salinan hardcopy borang permohonan dan dokumen yang lengkap kepada Bahagian Pembangunan Inovasi Dan Standard.

MAKLUMAN Soalan: Adakah permohonan pendaftaran kelulusan produk/bahan ini adalah diwajibkan kepada semua pembekal, pengedar dan pengilang? Jawapan: Tidak. Permohonan yang dikemukakan oleh pembekal, pengeluar dan pengilang bagi

### MAKLUMAT BAHAN/BARANGAN YANG DILULUSKAN

Keterangan Barangan	ST. RUMBLE STRIP - EN 1436/ 1871
Kod Barangan	JJ0311013.MJ159.J171
Nama Syarikat	SAUJANA TERAJU ENTERPRISE
Status Syarikat	PENGI LANG
Alamat	LOT 16846, PTD 19189 MUKIM ULU BENUT 86200 SIMPANG RENGAM JOHOR
No Telefon	0127204243
No Fax	
Jenama	ST. THERMOPLASTIC
No Laporan	026/2023
Tarikh Tamat	09-05-2025
Rujukan	
Catatan	Mesyuarat JBKJP Bil.3/2023 pada 10 Mei 2023 telah memutuskan bahawa permohonan produk St. Rumble Strip - EN 1436/ 1871 adalah LULUS berkuatkuasa dari 10 Mei 2023 hingga 9 Mei 2025
Negara	MALAYSIA

Bil	Model	Column Name	Gambar
1	ST. THERMOPLASTIC ANTI SKID MATERIAL		

Senarai Dokumen Berkaitan :

Bil	Nama Dokumen	File
1	ST RUMBLE STRIP (2).pdf	

**Menu Utama**

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- Q & A

**Maklumat Bahan/Barangan**

Carian



SAUJANA TERAJU

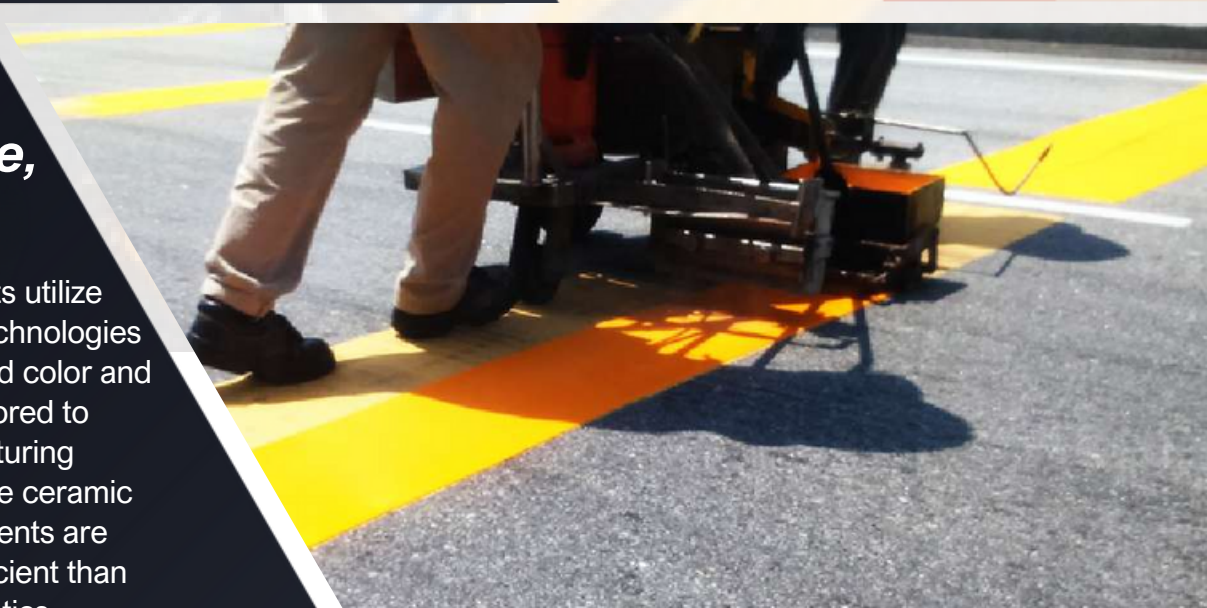
## ST. THERMOPLASTIC

# ABOUT OUR PRODUCTS

### *Ultimate nighttime performance, wet or dry*

Our reflective elements utilize the most advanced technologies to deliver true reflected color and optimized visibility tailored to meet your needs. Featuring unique microcrystalline ceramic beads, reflective elements are tougher and more efficient than other glass beaded optics systems, so you can expect superior performance in any condition.

All weather thermoplastic is a long-lasting, cost-effective traffic safety solution. Featuring unique dual-optics system, it ensures high levels reflectivity in both dry and wet conditions



## WHAT IS THERMOPLASTIC

Thermoplastic is long lasting, easy to apply and affordable, making it the most popular durable pavement marking in the world.

Most thermoplastics, however, lack wet weather visibility and quickly lose their retro-reflective performance.

All weather thermoplastic with all weather elements features unique, dual-optic elements that maximize both dry and wet reflectivity, while extending retroreflective functionality long after other thermoplastics become ineffective. It offers different element blends that are ideal for your roadway visibility requirements.

*Our unique, tough microcrystalline ceramic elements - applied via double drop and available in dry or both dry and wet-reflective formulations*

*Conventional glass beads surface-dropped during application*



*Intermix contains conventional glass beads and optional elements*



SAUJANA TERAJU

The result of an all weather thermoplastic with all weather elements: motorists get the high visibility guidance they need, and agencies get an effective, durable pavement marking that minimizes traffic disruptions and improves roadway safety.

## 1 Superior reflective performance and retained visibility

The retro reflective elements in all weather thermoplastic are unlike anything else in the industry. They feature unique microcrystalline ceramic beads, which are far tougher and more durable than conventional glass beads. That means they will retain their visibility much longer.

## 2 Maximum dry reflectivity

Its unique, exceptionally durable dry reflective elements are made with 1.9 index microcrystalline ceramic beads - the most efficient dry reflective optics available today - and high efficiency pigments, ensuring the highest levels of reflectivity on dry pavement surfaces.

## 3 Maximum wet reflectivity

Its wet reflective elements - made with 2.4 index microcrystalline ceramic beads, coupled with high efficiency pigments—provide maximum reflectivity under wet and rainy conditions. In fact, 2.4 index optics actually work with water for true, all-weather performance.

## 4 Easy application

All Weather Thermoplastic is applied quickly and easily with conventional, double-drop thermoplastic equipment.

## 5 Technical assistant

As a global company with local resources, it is much more than just a supplier of pavement markings. Our experienced representatives and technicians can show you how to improve roadway visibility and safety, reduce long term costs, properly apply pavement marking materials, and maintain your roadway marking projects.

# ST. THERMOPLASTIC

## WHY USE REFLECTIVE ELEMENTS

### Compare Dry Reflectivity to Conventional Optics

Its 1.9 refractive index microcrystalline ceramic beads outperform other commercial elements in dry retroreflective performance.

### Simply The Best

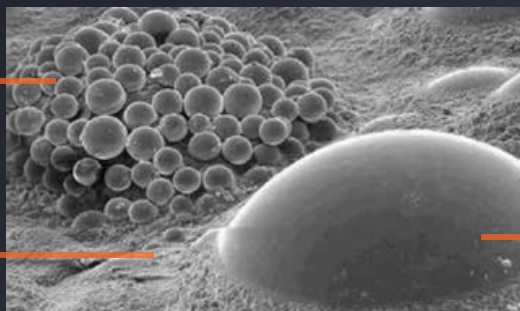
The visibility, efficiency and toughness of its microcrystalline ceramic beads are superior to other commercial marking systems.

### High Efficiency Pigments For Better Performance

Its microcrystalline ceramic beads feature high efficiency pigments to deliver improved reflectivity.

Microcrystalline Ceramic Beads

Microcrystalline ceramic beads are engineered to prevent cracks from starting and propagating, resulting in unprecedented toughness.



Binder / Pigment

Glass Bead

## 1 Most efficient optics for liquid - applied markings

Each all-weather element is a complete pavement marking optical system which comprises of microcrystalline ceramic beads, binder and pigments.

## 2 Factory optimized

Its bonded core elements consist of microcrystalline ceramic beads embedded on a center core to provide optimal performance in all weather conditions.

## 3 Easily installed using the Double-drop System

As the first drop of a double drop system, the elements provide visibility to motorists in both wet and dry conditions. They are effective as either new marking applications or as part of a maintenance marking application.



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## 4 Yellow elements — Yellow beads

Standard glass beads are clear, putting the entire burden for color performance on the binder. We incorporate yellow microcrystalline ceramic beads in its yellow elements to improve reflected color.

## 5 Color recognition day and night — wet or dry

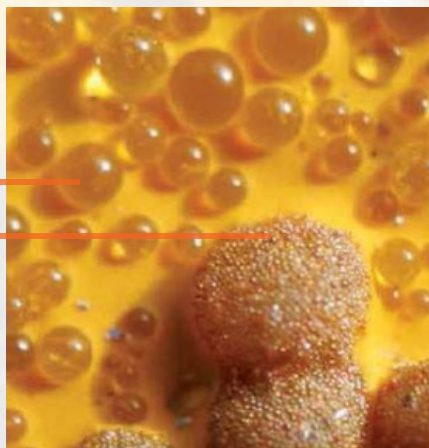
Most pavement markings have acceptable daytime color. Conventional yellow markings use clear glass beads which often result in a washed out appearance at night. Our yellow beads improve nighttime color, making the markings conspicuous at any time of day or night.

## 6 Tailored performance to meet agency needs

We offers optics systems for both wet and dry climates, with each system boasting superior performance in its intended conditions.

*Standard glass beads are clear, putting all the burden for color performance on the binder.*

*Yellow elements feature yellow microcrystalline ceramic beads*



## 7 Optimized index for wet and dry conditions

- For optimum performance under dry conditions, the elements feature 1.9 refractive index microcrystalline ceramic beads.
- The all-weather optics include ultra high, 2.4 refractive index microcrystal line ceramic beads. The high refractive index results in good measurable wet reflectivity, the highest practical level achieved to date. The 2.4 refractive 0 index microcrystalline ceramic bead has the same microcrystalline structure and level of toughness found in lower index microcrystalline beads.
- As a system, the all-weather optics have dry reflective beads at peak efficiency, and wet reflective beads much higher in efficiency than any other commercial beads.

# ST. THERMOPLASTIC

# PRODUCT LISTING



SAUJANA TERAJU



## ST. BS 3262 - WHITE

Binder Content	Min 19%
Softening Points	Min 90°C
Luminance Factor	Min 70
Heat Stability	Min 65

## ST. BS 3262 - YELLOW

Binder Content	Min 19%
Softening Points	Min 90°C
Luminance Factor	Min 70
Heat Stability	Min 65

## ST. BS 3262 - BLACK

Binder Content	Min 19%
Softening Points	Min 90°C
Luminance Factor	Min 70
Heat Stability	Min 65



## ST. BS 3262 - BLUE

Binder Content	Min 19%
Softening Points	Min 90°C
Luminance Factor	Min 70
Heat Stability	Min 65

## ST. BS 3262 - GREEN

Binder Content	Min 19%
Softening Points	Min 90°C
Luminance Factor	Min 70
Heat Stability	Min 65

## ST. BS 3262 - RED

Binder Content	Min 19%
Softening Points	Min 90°C
Luminance Factor	Min 70
Heat Stability	Min 65





**SAUJANA TERAJU**



**GLASS BEAD A (EN 1423)**

**GLASS BEAD B (EN 1423)**

FEATURES	ADVANTAGES	BENEFITS
Energy Efficient	Melts & cooks using less energy	Save on LPG cost
High Pressure Resistance	Open traffic faster	Shorter road closure time and less traffic congestion
20% Intermix Glass Beads	Markings reflect even with worn drop-on glass beads	Excellent lifetime retro-reflectivity
Improved Dirt Resistance	Markings are less tacky	Markings remain white or yellow
Durable	Long lasting	Long service life



**RETROREFLECTIVE GLASS AWT (EN 1423)**

Coefficient of Retroreflected Luminance (RL) on Dry Condition mcd/m-2/lux -1	(RL) ≥ 300
Coefficient of Retroreflected Luminance (RL) on Wet Condition mcd/m-2/lux-1	(RL) ≥ 75
Coefficient of Retroreflected Luminance (RL) on Rain Condition mcd/m-2/lux-1	(RL) ≥ 75
Chromaticity Coordinates	0.3122, 0.3379
Skid Resistance Test	SRT ≥ 75
Luminance Factor	β ≥ 0.60



**ST. AWT - WHITE  
(All Weather ThermoPlastic  
EN 1436 / EN 1871)**

**ST. AWT - WHITE  
(All Weather ThermoPlastic  
EN 1436 / EN 1871)**

Coefficient of Retroreflected Luminance (RL) on Dry Condition mcd/m2/lux	(RL) ≥ 300
Coefficient of Retroreflected Luminance (RL) on Wet Condition mcd/m2/lux	(RL) ≥ 150
Coefficient of Retroreflected Luminance (RL) on Continuous Rain Condition mcd/m2/lux	(RL) ≥ 150
Skid Resistance Test	SRT ≥ 50



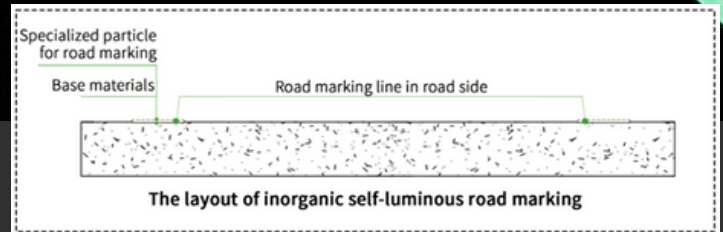
**ST. RUMBLE STRIP  
(EN 1436 / EN 1871)**

**ST. GLOW IN THE DARK  
THERMOPLASTIC**

Alkali Resistance	
Softening Point	SPT ≥ 110
Skid Resistance Test	SRT ≥ 65

Absorb Light	10 - 30 Minutes
Glow	More Than 12 Hours

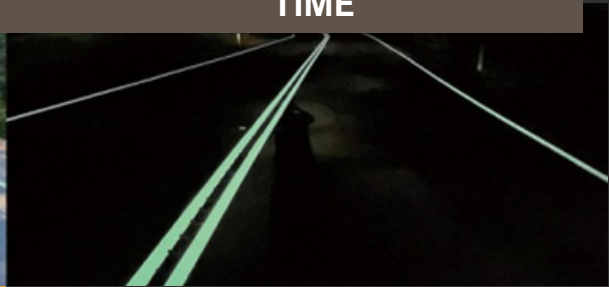
## ST. GLOW IN THE DARK THERMOPLASTIC



ABSORBING SUNLIGHT IN THE DAY TIME



GLOWING IN THE NIGHT TIME



ST. GLOW IN THE DARK THERMOPLASTIC ON SITE



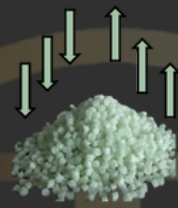
### LUMINESCENCE THEORY

Absorb Light



All visible light, including sunlight in both sunny days and rainy days, other light source.

Storage



Takes 5-20 minutes. The stronger the light, the shorter the storage time.

Release Light



Glowing in the dark for more than 10 hours. Warn and guide 24-hour in all situations

### Contact Us

NO. COMPANY REGISTRATION :  
001412031-M

PHONE : 07-7541008 (OFFICE)  
012-7204243 (SALES )  
019-7565411 (ADMIN/ACCOUNT)

WEBSITE : [www.stsaujana.com](http://www.stsaujana.com)

EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)

### ABOUT

- Absorbing visible light for 10 - 30 minutes.
- Glow thermoplastic road marking paint will glow more than 12 hours in the darkness.
- Widely used for highway and road.
- Melt at around 180°C to form marking paint for laying on the roads - both bitumen and concrete.

# ST. THERMOPLASTIC

# ST. RUMBLE STRIPS

## (SCREED METHOD)

Rumble Strips is a non-solvent paint that are melted and applied hot to road surfaces using the screeded method.

These road marking paints or materials have consists of special aggregate to enhance skid resistance.

Rumble Strips regularly marking as transverse bars as its have excellent durability and high skid resistance which are controlling the heavy traffic volume city roads.



## Contact Us

NO. COMPANY REGISTRATION :  
001412031-M

PHONE : 07-7541008 (OFFICE)  
012-7204243 (SALES )  
019-7565411 (ADMIN/ACCOUNT)

WEBSITE : [www.stsaujana.com](http://www.stsaujana.com)  
EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)



## High Skid Thermoplastic Road Marking Materials

### Product Application

The road surface shall be clean and free from mud, loose sand, oil or grease where old paint or markings are present, the contractor shall be responsible to determine whether surface is suitable or not.

The material shall be applied at temperature not exceeding 220°C. The finished lines shall be free from raggedness on side and ends. The surface of the line shall be level, uniform and free from streaks.

### Material Composition

The marking materials consist of a substantially white aggregate, pigment and extender, bound together with a thermoplastic resin, plasticised as necessary.

The approximate composition of the marking materials are:

- Aggregate – 65%
- Pigment and extender – 10%
- Binder – 25%

### Technical Highlights

Heat Temperature	180°C - 200°C
Softening Point	> 65°C
Skid Resistance	SRT > 45
Thickness	2mm - 5mm



SAUJANA TERAJU

**ST. THERMOPLASTIC**

# TEST REPORT BY SIRIM



- ALL WEATHER THERMOPLASTIC (AWT)
- NORMAL THERMOPLASTIC
- RUMBLE STRIP
- GLASS BEAD
- ELEMENTS

# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## ALL WEATHER THERMOPLASTIC WHITE (EN 1436)



**SIRIM QAS International Sdn. Bhd.**  
(Company No.: 199601037981 (410334-X))  
No. 1, Persiaran Dato' Menteri, P.O.BOX 7035, Section 2,  
40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
Tel: 03-55446667  
Fax: 03-55446688  
www.sirim-qas.com.my

### TEST REPORT

REPORT NO : 2020CE1478

PAGE : 1 OF 4

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### THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

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No. 19838-A, Tingkat 1, Jalan Sin See,  
86200, Simpang Renggam,  
Johor Darul Takzim, Malaysia.

Manufacturer : S.T. THERMOPLASTIC  
No. 23, Tingkat 1, Jalan Muafakat 1,  
Pusat Perdagangan Muafakat,  
86200, Simpang Renggam,  
Johor Darul Takzim, Malaysia.

Product : ST All Weather Thermoplastic

Reference Standard / Method of Test : BS EN 1436: 2007 + A1:2008  
Title: Road marking materials – Road marking performance for road users

Description of sample : Received one (1) sample of ST All Weather Thermoplastic for testing. The details described in the next pages.

Date Received of Complete Application : 29 September 2020

Job No. : J20201401249

Description of Test Results : The test results of the submitted test sample are described in next pages of this test report.

Issued Date : 19 October 2020

Approved Signatory;

(ABDUL AZIZ BIN HARON)  
Senior Testing Executive



(HAHNAS BINTI MAHBUT)  
Head  
Chemical & Consumer Section  
Testing Services Department

# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## ALL WEATHER THERMOPLASTIC YELLOW (EN 1436)



SIRIM QAS International Sdn. Bhd.  
(Company No.: 199601037981 (410334-X))  
No. 1, Persiaran Dato' Menteri, P.O.BOX 7035, Section 2,  
40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
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### TEST REPORT

REPORT NO : 2020CE1479

PAGE : 1 OF 4

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No. 19838-A, Tingkat 1, Jalan Sin See,  
86200, Simpang Renggam,  
Johor Darul Takzim, Malaysia.

Manufacturer : S.T. THERMOPLASTIC  
No. 23, Tingkat 1, Jalan Muafakat 1,  
Pusat Perdagangan Muafakat, 86200, Simpang Renggam,  
Johor Darul Takzim, Malaysia.

Product : S.T All Weather Thermoplastic

Reference Standard / Method of Test : BS EN 1436: 2007 + A1:2008  
Title: Road marking materials – Road marking performance for road users

Description of sample : Received one (1) sample of ST All Weather Thermoplastic for testing. The details described in the next pages.

Date Received of Complete Application : 29 September 2020

Job No. : J20201401250

Description of Test Results : The test results of the submitted test sample are described in next pages of this test report.

Issued Date : 19 October 2020

Approved Signatory;

(ABDUL AZIZ BIN HARON)  
Senior Testing Executive



(HAHNAS BINTI MAHBUT)  
Head  
Chemical & Consumer Section  
Testing Services Department

# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## ALL WEATHER THERMOPLASTIC WHITE (EN 1871)



SIRIM QAS International Sdn. Bhd.  
(Company No.: 199601037981 (410334-X))  
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40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
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### TEST REPORT

REPORT NO : 2022CE0223-S1

PAGE : 1 OF 4

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86200 Simpang Renggam, Johor, Malaysia.

Manufacturer : SAUJANA TERAJU ENTERPRISE  
No. 19838, A Tingkat 1, Jalan Sin See,  
86200 Simpang Renggam, Johor, Malaysia.

Product : ALL WEATHER THERMOPLASTIC (AWT) ROAD MARKING MATERIAL -  
WHITE-

Reference Standard / Method of Test : BS EN 1871: 2020: Road Marking Materials – Paint, thermoplastic and  
cold plastic materials – Physical properties

Description of sample : Received one (1) sample of ALL WEATHER THERMOPLASTIC (AWT)  
ROAD MARKING MATERIAL -WHITE- for testing. The details are  
described in the next pages

Date Received of Complete Application : 06 January 2022

Job No. : J20223670035

Description of Test Results : The test results of the submitted test sample are described in the next  
pages of this test report

Issued Date : 10 February 2022

Approved Signatory;

(ABDUL AZIZ BIN HARON)  
Senior Testing Executive



(HAHNAS BINTI MAHBUT)  
Head

Chemical, Polymer and Composite Section  
Testing Services Department



# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## ALL WEATHER THERMOPLASTIC YELLOW (EN 1871)



SIRIM QAS International Sdn. Bhd.  
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40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
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### TEST REPORT

REPORT NO : 2022CE1174

PAGE : 1 OF 4

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Manufacturer : SAUJANA TERAJU ENTERPRISE  
Lot 16846, PTD 19189 Mukim Ulu Benut,  
86200 Simpang Renggam, Johor, Malaysia.

Product : All Weather Thermoplastic (AWT) Road Marking Material

Reference Standard / Method of Test : BS EN 1871: 2020: Road Marking Materials – Paint, thermoplastic and cold plastic materials – Physical properties

Description of sample : Received one (1) sample of All Weather Thermoplastic (AWT) Road Marking Material for testing. The details are described in the next pages

Date Received of Complete Application : 21 April 2022

Job No. : J20223670866

Description of Test Results : The test results of the submitted test sample are described in the next pages of this test report

Issued Date : 24 May 2022

Approved Signatory;

(ABDUL AZIZ BIN HARON)  
Senior Testing Executive



(HAHNAS BINTI MAHBUT)  
Head

Chemical, Polymer and Composite Section  
Testing Services Department

# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## HOT APPLIED THERMOPLASTIC WHITE (MS 1303)



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(Company No.: 199601037981 (410334-X))  
No. 1, Persiaran Dato' Menteri, P.O BOX 7035, Section 2,  
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### TEST REPORT

REPORT NO : 2023CE3090

PAGE : 1 OF 3

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86200 Simpang Renggam, Johor, Malaysia.

Manufacturer : SAUJANA TERAJU ENTERPRISE  
Lot 168846 PTD 19189 Mukim Ulu Benut,  
86200 Simpang Renggam, Johor, Malaysia.

Product : Hot Applied Thermoplastic Road Marking Materials - BS 3262

Reference Standard / Method of Test : MS1303: Part 1: 1993  
Specification for Thermoplastic Road Marking Materials: Requirements

Description of sample : Received one (1) sample of Hot Applied Thermoplastic Road Marking Materials - BS 3262 for testing. The details are described in the next page

Date Received of Complete Application : 06 November 2023

Job No. : J20233672131

Description of Test Results : This test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn. Bhd. The test results for the submitted test sample as described in this test report complied with the requirements of the above reference standard at the respective clauses tested

Issued Date : 28 December 2023

Approved Signatory;

(MUHAMMAD FAIZ BIN ZAINO) Testing Executive



(DALHA BIN KATNI @ RAHMAT) Head

Chemical, Polymer and Composite Section  
Testing Services Department

# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## HOT APPLIED THERMOPLASTIC YELLOW (MS 1303)



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### TEST REPORT

REPORT NO : 2023CE3091

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Manufacturer : SAUJANA TERAJU ENTERPRISE  
Lot 168846 PTD 19189 Mukim Ulu Benut,  
86200 Simpang Renggam, Johor, Malaysia

Product : Hot Applied Thermoplastic Road Marking Materials - BS 3262

Reference Standard / Method of Test : MS1303: Part 1: 1993  
Specification for Thermoplastic Road Marking Materials: Requirements

Description of sample : Received one (1) sample of Hot Applied Thermoplastic Road Marking Materials - BS 3262 for testing. The details are described in the next page

Date Received of Complete Application : 06 November 2023

Job No. : J20233672131

Description of Test Results : This test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn. Bhd. The test results for the submitted test sample as described in this test report complied with the requirements of the above reference standard at the respective clauses tested

Issued Date : 28 December 2023

Approved Signatory;

(MUHAMMAD FAIZ BIN ZAINO) Testing Executive



(DALHA BIN KATNI @ RAHMAT) Head

Chemical, Polymer and Composite Section  
Testing Services Department

# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## HOT APPLIED THERMOPLASTIC WHITE (BS 3262)



SIRIM QAS International Sdn. Bhd.  
(Company No.: 199601037981 (410334-X))  
No. 1, Persiaran Dato' Menteri, P.O BOX 7035, Section 2,  
40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
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### TEST REPORT

REPORT NO : 2023CE3092

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Manufacturer : SAUJANA TERAJU ENTERPRISE  
Lot 168846 PTD 19189 Mukim Ulu Benut,  
86200 Simpang Renggam, Johor, Malaysia.

Product : Hot Applied Thermoplastic Road Marking Materials

Reference Standard / Method of Test : BS 3262: Part 1: 1989  
Title: Hot-Applied Thermoplastic Road Marking Materials

Description of sample : Received one (1) sample of Hot Applied Thermoplastic Road Marking Materials for testing. The details are described in the next page

Date Received of Complete Application : 07 November 2023

Job No. : J20233672132

Description of Test Results : This test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn. Bhd. The test results for the submitted test sample as described in this test report complied with the requirements of the above reference standard at the respective clauses tested

Issued Date : 28 December 2023

Approved Signatory;

(MUHAMMAD FAIZ BIN ZAINO) Testing Executive



(DALHA BIN KATNI @ RAHMAT) Head

Chemical, Polymer and Composite Section  
Testing Services Department

# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## HOT APPLIED THERMOPLASTIC YELLOW (BS 3262)



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REPORT NO : 2023CE3093

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Manufacturer : SAUJANA TERAJU ENTERPRISE  
Lot 168846 PTD 19189 Mukim Ulu Benut,  
86200 Simpang Renggam, Johor, Malaysia

Product : Hot Applied Thermoplastic Road Marking Materials

Reference Standard / Method of Test : BS 3262: Part 1: 1989  
Title: Hot-Applied Thermoplastic Road Marking Materials

Description of sample : Received one (1) sample of Hot Applied Thermoplastic Road Marking Materials for testing. The details are described in the next page

Date Received of Complete Application : 07 November 2023

Job No. : J20233672132

Description of Test Results : This test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn. Bhd. The test results for the submitted test sample as described in this test report complied with the requirements of the above reference standard at the respective clauses tested

Issued Date : 28 December 2023

Approved Signatory;

  
.....  
(MUHAMMAD FAIZ BIN ZAINO)  
Testing Executive



  
.....  
(DALHA BIN KATNI @ RAHMAT)  
Head

Chemical, Polymer and Composite Section  
Testing Services Department

# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## RUMBLE STRIP (EN 1436 & EN 1871)



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40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
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### TEST REPORT

REPORT NO : 2022CE1385

PAGE : 1 OF 4

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Manufacturer : SAUJANA TERAJU ENTERPRISE  
Lot 16846, PTD 19189 Mukim Ulu Benut,  
86200 Simpang Renggam, Johor, Malaysia.

Product : S.T Thermoplastic Anti Skid Material

Reference Standard / Method of Test : 1) BS EN 1436: 2018 - Road marking materials – Road marking performance for road users and test methods  
2) BS EN 1871: 2020 - Road Marking Materials – Paint, thermoplastic and cold plastic materials – Physical properties

Description of sample : Received one (1) sample of S.T Thermoplastic Anti Skid Material for testing. The details are described in the next pages

Date Received of Complete Application : 30 May 2022

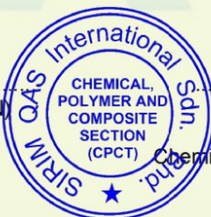
Job No. : J20223671124

Description of Test Results : The test results of the submitted test sample is described in the next pages of this test report

Issued Date : 10 June 2022

Approved Signatory;

(ABDUL AZIZ BIN HARON)  
Senior Testing Executive



(HAHNAS BINTI MAHBUT)  
Head

Chemical, Polymer and Composite Section  
Testing Services Department

# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## GLASS BEAD (EN 1423)



SIRIM QAS International Sdn. Bhd.  
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40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
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### TEST REPORT

REPORT NO : 2024CE0011

PAGE : 1 OF 4

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Lot 168846 PTD 19189 Mukim Ulu Benut,  
86200 Simpang Renggam, Johor, Malaysia.

Manufacturer : SAUJANA TERAJU ENTERPRISE  
Lot 168846 PTD 19189 Mukim Ulu Benut,  
86200 Simpang Renggam, Johor, Malaysia.

Product : Glass Bead - Landscapus

Reference Standard / Method of Test : BS EN 1423: 2012  
Road Marking Materials – Drop on materials – Glass beads, antiskid aggregates and mixtures of the two

Description of sample : Received one (1) sample of Glass Bead - Landscapus for testing. The details were described in the next pages

Date Received of Complete Application : 14 December 2023

Job No. : J20233672398

Description of Test Results : This test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn. Bhd. The test results for the submitted test sample as described in this test report complied with the requirements of the above reference standard at the respective clauses tested

Issued Date : 05 January 2024

Approved Signatory;

(MUHAMMAD FAIZ BIN ZAINON)  
Testing Executive



(DALHA BIN KATNI @ RAHMAT)  
Head

Chemical, Polymer and Composite Section  
Testing Services Department

# ST. THERMOPLASTIC

# PRODUCT TEST REPORT



## ELEMENTS (EN 1423)



SIRIM QAS International Sdn. Bhd.  
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40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
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### TEST REPORT

REPORT NO : 2024CE0012

PAGE : 1 OF 4

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Manufacturer : SAUJANA TERAJU ENTERPRISE  
Lot 168846 PTD 19189 Mukim Ulu Benut,  
86200 Simpang Renggam, Johor, Malaysia.

Product : Retroreflective Glass AWT Drop On Material - Elements

Reference Standard / Method of Test : BS EN 1423: 2012  
Road Marking Materials – Drop on materials – Glass beads, antiskid aggregates and mixtures of the two

Description of sample : Received one (1) sample of Retroreflective Glass AWT Drop On Material - Elements for testing. The details were described in the next pages

Date Received of Complete Application : 14 December 2023

Job No. : J20233672399

Description of Test Results : This test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn. Bhd. The test results for the submitted test sample as described in this test report complied with the requirements of the above reference standard at the respective clauses tested

Issued Date : 05 January 2024

Approved Signatory;

(MUHAMMAD FAIZ BIN ZAINON)  
Testing Executive



(DALHA BIN KATNI @ RAHMAT)  
Head

Chemical, Polymer and Composite Section  
Testing Services Department



# ST. THERMOPLASTIC METHOD STATEMENT OF APPLICATION



## THERMOPLASTIC ROAD MARKING MATERIAL & THERMOLINE

### SITE PREPARATIONS :

- The road surface shall be swept or where applicable wire - brushed such that it is free of loose detritus, mud or similar extraneous matter. Any old flaking markings of paint or thermoplastic material shall also be removed by scraping and wire-brushed.
- The road surface shall also be free of moisture prior to application. Care should be exercised when markings are done immediately after rain or early in the morning due to latent moisture content on the road surface. Pre-heating could be used to warm-up and dry the road surface prior to application.

### MATERIAL PREPARATIONS :

- The road marking material shall be heated in a pre-heater boiler with an in-built agitator. The material shall be agitated while melting down to prevent local overheating.
- The maximum heating temperatures for the materials shall not exceed 230 degree Celsius at any given time.
- On melting down, the material shall not be heated in excess of six hours and shall be used within this time.

### MATERIAL APPLICATIONS :

- After transfer from the boiler to the application machine, the material shall be laid at a temperature not exceeding 210 degree Celsius.
- The surface of the line as laid shall be free from blisters streaks lumps and other defects.
- Where surface application of solid glass beads is required, the additional glass beads shall comply with the class B (Drop-on) requirement of BS 6088.
- The glass bead shall be distributed on the newly laid thermoplastic concurrently with the laying of the line with sufficient velocity to ensure retention of the solid glass beads.
- The thermoplastic material shall be laid to a thickness as specified in the contract the thickness specified is exclusive of surface applied solid glass beads.
- The tolerance on the specified width of the laid line shall be +10%, 5%

## ST. THERMOPLASTIC

# PRODUCT LISTING

- SOLAR ROAD STUD ST-RS-A6
- SOLAR ROAD STUD ST-RS-A6B
- ST GUARDRAIL REFLECTOR
- ST-LUMINOUS ROAD STUD (G.D)
- PREFLEX, ROAD MARKINGS, SYMBOLS & SIGN
- METHYL METHACRYLATE COLD ROAD MARKING PAINT
- ROADLINE PAINT
- POLYURETHANE PAINT
- EXPOXY PAINT
- ANTI-CORROSION UNDERCOAT
- ANTI-CORROSION PAINT
- CYCLE LANE PAINT
- ANTI-SKID PAINT
- ST ROLLABLE MMA
- SOLAR ROAD STUD ST-RS-A6
- FLEXIBLE POST
- PVC FLEXIBLE DELINEATOR POST
- DELINEATOR POST
- ST RETRO REFLECTIVE TESTING SERVICES
- ST MARKING THICKNESS GAUGE

**ST. THERMOPLASTIC**



# ST SOLAR ROAD STUD

## Contact Us

NO. COMPANY REGISTRATION :

001412031-M

PHONE : 07-7541008 (OFFICE)

012-7204243 (SALES )

019-7565411 (ADMIN/ACCOUNT)

WEBSITE : [www.stsaujana.com](http://www.stsaujana.com)

EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)

# ST. THERMOPLASTIC

# SOLAR ROADSTUD ST-RS-A6



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EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)

## The Main Structure :



## Key Features :

- Small & economy aluminum model
- With two shanks
- Without releasing on road

## Application :

- Road delineation
- Accident black-spots / cluster sites
- Hazardous road layouts
- Areas adversely affected by poor visibility
- Cycle path
- Car parks
- Railway crossings outside of urban areas
- Harbour fronts and landing stages

## Specification :

Size	: 133*123*22mm
Shank size	: 55mm
Net weight	: 0.66kg
Material	: Aluminium alloy shell + Polycarbonate + Epoxy filler
LED	: F8MM, one-way 2pcs/3pcs; two-way 4 pcs/6pcs
LED working mode	: Flash (2HZ or upon request) or Constant
Luminous intensity	: 5000mcd
View distance	: over 500m
Color	: RED/YELLOW/WHITE/BLUE/GREEN
Solar panel	: Monocrystalline silicon 2.5V150MA
Battery	: Ni-MH/1.2V600MAH
Battery life span	: More than 3 years
Charge time	: 8 hours @ 100Klux (sun day)
Working time	: Flash 200hours or Constant 72hours
Activation	: Photo sensor
Starting intensity	: 500lux
Compression resistance	: over 20 tons
Working temperature	: -20°C~+70°C
Ingress Protection	: IP68
Warranty	: One year



# ST. THERMOPLASTIC SOLAR ROADSTUD ST-RS-A6



# ST. THERMOPLASTIC SOLAR ROADSTUD ST-RS-A6



SIRIM QAS International Sdn. Bhd.  
(Company No.: 199601037981 (410334-X))  
No.1, Persiaran Dato' Menteri, P.O.BOX 7035, Section 2,  
40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
Tel: 03-55446379  
Fax: 03-55446381  
www.sirim-qas.com.my

## TEST REPORT

REPORT NO : 2023MA0074	PAGE : 1 OF 4
This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE), SIRIM QAS International Sdn. Bhd. Please refer to the last page of this Test Report for Conditions Relating to the Use of Test Report.	

### THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : SAUJANA TERAJU ENTERPRISE (001412031M)  
LOT 168846 PTD 19189 MUKIM ULU BENUT,  
86200, SIMPANG RENGGAM,  
JOHOR DARUL TA'ZIM,  
MALAYSIA.

Manufacturer : SAUJANA TERAJU ENTERPRISE (001412031M)  
LOT 168846 PTD 19189 MUKIM ULU BENUT,  
86200, SIMPANG RENGGAM,  
JOHOR DARUL TA'ZIM,  
MALAYSIA.

Product : ST-RS-A6 (SOLAR ROADSTUD)

Reference Standard / Method of Test : MS 1719: 2003: Specification for Raised Pavement Markers (RPM)  
- Clause 5.5.5: Compressive Strength

Description of sample : Five (5) pieces of Brand: ST. Solar Roadstud were received in good condition on 18 January 2023 for testing.

Product description: Small and Economy Aluminum model with two shanks without releasing on road.  
Size: 133mm x 123mm x 22mm (Shank size: 55mm)

Date Received of Complete Application : 15 January 2023

Job No. : J20231390048

Description of Test Results : This test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn. Bhd. The test results for the submitted test samples as described in this test report complied with the requirements of the above reference standard at the respective clauses tested.

Issued Date : 30 January 2023

Approved Signatory;

(NOOR AZLIE BIN AHMAD)  
Testing Executive



(MOHD FAIZAR BIN MUSTAFA)  
Head  
Mechanical & Automotive Section  
Testing Services Department

# ST. THERMOPLASTIC

# SOLAR ROADSTUD ST-RS-A6B



## Contact Us

NO. COMPANY REGISTRATION :

001412031-M

PHONE : 07-7541008 (OFFICE)

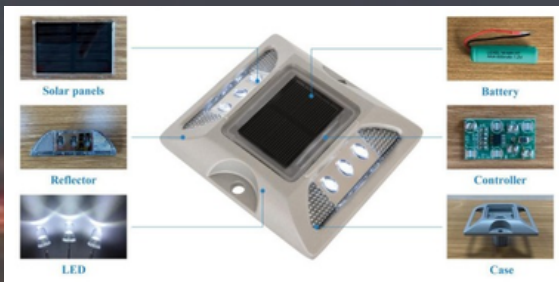
012-7204243 (SALES )

019-7565411 (ADMIN/ACCOUNT)

WEBSITE : [www.stsaujana.com](http://www.stsaujana.com)

EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)

## The Main Structure :



## Key Features :

- Small & economy aluminum model
- With two shanks
- Without releasing on road

## Application :

- Road delineation
- Accident black-spots / cluster sites
- Hazardous road layouts
- Areas adversely affected by poor visibility
- Cycle path
- Car parks
- Railway crossings outside of urban areas
- Harbour fronts and landing stages

## Specification :

Size	: 127.8*114*80mm
Net weight	: 539.6g/pcs
Material	: Aluminum alloy shell + Polycarbonate + Epoxy filler
LED	: F5MM, one-way 2pcs/3pcs; two-way 4 pcs/6pcs
LED working mode	: Flash (2HZ or upon request) or Constant
Luminous intensity	: 5000mcd
View distance	: over 500m
Color	: RED/YELLOW/WHITE/BLUE/GREEN
Solar panel	: Monocrystalline silicon 2.5V150MA
Battery	: Ni-MH/1.2V600MAH
Battery life span	: More than 3 years
Charge time	: 8 hours @ 100Klux (sun day)
Working time	: Flash 200hours or Constant 72hours
Activation	: Photo sensor
Starting intensity	: 500lux
Compression resistance	: over 20 tons
Working temperature	: -20°C~+70°C
Ingress protection	: IP68
Warranty	: One year
Inner box size	: 138*128*84mm 1pcs/carton
Outer box size	: 665*440*280mm 45pcs/carton



**ST. THERMOPLASTIC**

**SOLAR  
ROADSTUD  
ST-RS-A6B**





# ST. THERMOPLASTIC SOLAR ROADSTUD ST-RS-A6B



SIRIM QAS International Sdn. Bhd.  
(Company No.: 199601037981 (410334-X))  
No.1, Persiaran Dato' Menteri, P.O.BOX 7035, Section 2,  
40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
Tel: 03-55446379  
Fax: 03-55446381  
www.sirim-qas.com.my

## TEST REPORT

REPORT NO : 2023MA0950	PAGE : 1 OF 4
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### THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : SAUJANA TERAJU ENTERPRISE (001412031M)  
LOT 168846 PTD 19189 MUKIM ULU BENUT,  
86200, SIMPANG RENGGAM,  
JOHOR DARUL TA'ZIM,  
MALAYSIA.

Manufacturer : SAUJANA TERAJU ENTERPRISE (001412031M)  
LOT 168846 PTD 19189 MUKIM ULU BENUT,  
86200, SIMPANG RENGGAM,  
JOHOR DARUL TA'ZIM,  
MALAYSIA.

Product : ST-RS-A6B (SOLAR ROADSTUD)

Reference Standard / Method of Test : MS 1719: 2003: Specification for Raised Pavement Markers (RPM)  
- Clause 5.5.5: Compressive Strength

Description of sample : Five (5) pieces of Brand: ST. Solar Roadstud were received in good condition on 5 September 2023 for testing.

Product description: Small and Economy Aluminum model with two shanks without releasing on road.  
Size: 127mm x 113mm x 23mm

Date Received of Complete Application : 22 August 2023

Job No. : J20231390807

Description of Test Results : The test results of the submitted test samples are described in Page 2 of this test report.

Issued Date : 07 September 2023

Approved Signatory:

(NOOR AZLIE BIN AHMAD)  
Testing Executive



(MOHD FAIZAR BIN MUSTAFA)  
Head  
Mechanical & Automotive Section  
Testing Services Department

**ST. THERMOPLASTIC**

# THE INSTALLATION INSTRUCTIONS



SAUJANA TERAJU

1

Use a ruler to determine the installation position. Install one at 3-5m ( or according to the installation distance required in the drawing) and ensure that all positions are in a straight line in the longitudinal direction, while horizontal alignment in the left and right. The installation distance shall be subject to the design requirements.

2

The road surface at the installation position shall be cleaned. Use the coring machine to take the hole, the depth of the hole is 1cm greater than the depth of the nail foot, and the diameter of the hole position is 2mm greater than the diameter of the nail foot .After installation, clean up the spilled glue and debris around, wait for 4-8 hours to activate.

3

The pavement of the installation location should be cleaned. Use a batch knife to apply about 40-50 grams of glue, apply it on the back of the road nail. Firmly mount the Stud on the fixing location & ensure the reflective part is facing the right traffic direction. Do clean the spilled epode if excesservation amount is use.

4

After installation, clean up the spilled glue and debris around, wait for 4-8 hours to activate.

# ST GUARDRAIL REFLECTOR

## Contact Us

NO. COMPANY REGISTRATION :  
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PHONE : 07-7541008 (OFFICE)  
012-7204243 (SALES )

019-7565411 (ADMIN/ACCOUNT)

WEBSITE : [www.stsaujana.com](http://www.stsaujana.com)

EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)

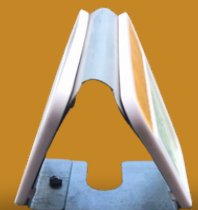
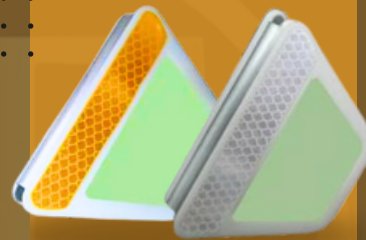
Absorbing  
visible light  
for 10 - 30  
minutes.

About :

Glow more  
than 12 hours  
in the  
darkness.

Widely used  
for cycling  
road, highway  
and road.

## VIEW :



## ST-LUMINOUS ROAD STUD (G.D)



### Contact Us

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001412031-M

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012-7204243 (SALES )

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WEBSITE : [www.stsaujana.com](http://www.stsaujana.com)

EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)

### Product Features :

- The products was made of ACD12 aluminum material.
- Work through light absorption - light saving - self-luminous.
- No radioactive, Chemical stability, safety and environmental protection.
- Convenient to install, no maintenance cost, highly durable.
- Antioxidant, corrosion resistance, abrasion resistance, fire resistance.
- The light is soft and comfortable, not harsh.



### Products Specification:

Shell Size	100*100*15mm foot :35mm
Warning Way	Fluorescence, Reflective
Fluorescence Level	DIN67510-4
Surface Material	High-Molecular Polymer
Base Material	High Density ABS Plastic
Visual Range	>100m
Work Mode	Self-Luminous In Night
Reflective	43 Reflective Beads

Compressive strength	20T
Color	Yellow, Green
Application	Highway, Backroad, Scenic Area & Etc.
Work Temperature	-30°C-+80°C
Install Way	Anchors With Resin Glue
Product Weight	200g
Packing	50PCS/CTN
Executive Standard	JT/T967-2017

# ST. THERMOPLASTIC

# PREFLEX, ROAD MARKINGS, SYMBOLS & SIGN



	Lines
	Panels
	Arrows <ul style="list-style-type: none"> <li>• Straight</li> <li>• Right/Left Turn</li> <li>• Bi-directional</li> </ul>
<b>ABCDEF...</b> <b>123456...</b>	Letters & Numbers
	Bicycle Logos

	Disabled Logos
	Walking Man Logo
	Mother & Child Logo
	Give Way
	Hazard Teeth

Description	
	Triangular Warning Signs
Description	
	Regulatory Signs

## ROAD MARKING SYMBOLS


## ROAD MARKING SIGN

	Hopscotch
	Target Games
	Board Games

	Circuits
	Long Jump
	Crocodile Jump

	Number Grids
	Numbered Insects & Animals
	Alphabet Jump

## PLAYGROUND MARKING



Your company logo made to order  
choice of 6 colours

## Contact Us

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001412031-M

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019-7565411 (ADMIN/ACCOUNT)

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EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)

## COMPANY LOGO

# ST. THERMOPLASTIC



## PREFLEX, ROAD MARKINGS, SYMBOLS & SIGN

### BENEFITS :

The preflex range offers superior performance and are an ideal solution for a wide range of applications.

### PREFLEX OFFER :

- A professional high quality finish
- Accurate dimensions for even the most intricate of designs
- Superior Durability - Lasts several lifetimes of painted markings
- Retro reflectivity - For added safety, day and night
- Trafficking within minutes
- Specialized formulations available for hot and cold climates
- Excellent bonding properties

### ENDLESS POSSIBILITIES :

- Ideal for reinstatement of markings after roadworks
- Fast & easy replication of complicated road symbols
- Educational playground markings
- Designating parking areas
- Factory floor markings
- Company logos
- And many, many more...

### COLOUR RANGE :

- Blue
- Light blue
- Red
- White
- Black
- Grey
- Yellow
- Green
- Light green
- Purple
- Pink
- Orange
- Light orange

### APPLICATIONS :

Finding it difficult to do small road marking jobs, perhaps no suitable equipment or experience, or are designs too complicated for standard application?

### WORKING WITH ST'S COMPANY PREFLEX :

This is a simple and flexible solution for standard road symbols, personalized graphics or logos.

### PREFLEX :

ST's preformed thermoplastic markings can be applied without the need for specialised equipment and expertise. Produced in a variety of shapes and sizes, including standard road symbols and personalised graphics and logos, it is flexible and easy to use.

The markings can be laid by a one or two man operation. No specialised machinery is required apart from a portable blowtorch with an appropriate LP gas cylinder. Ready for application and no stencils are required. Plus, there is no contamination when applying more than one colour.

**ST. THERMOPLASTIC**



# ST ROAD

# PAIN

## TAILOR YOUR PAINT

Saujana Teraju is a paint manufacturing expert and our products covered MMA Road Marking, Epoxy, PU, Roadline and Anti-Corrosion paint with various colour option to meet the market needs. We have a strong R&D team to continuously enhance our products' management team to bring the best services to our customer

- METHYL METHACRYLATE COLD ROAD MARKING PAINT
- ROADLINE PAINT
- POLYURETHANE PAINT
- EXPOXY PAINT
- ANTI-CORROSION UNDERCOAT
- ANTI-CORROSION PAINT
- CYCLE LANE PAINT
- ANTI-SKID PAINT

## Contact Us

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**001412031-M**

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# ST. THERMOPLASTIC



## METHYL METHACRYLATE COLD ROAD MARKING PAINT

### Product Highlight

- High Performance Cold Plastic
- Superior Durability
- Fast Curing Speed (<20 mins)
- High Skid Resistance



### Product Variation

- Screed Grade
- Spray Grade

### Packaging

- 10 KG (Include BPO Part B)
  - Other packing sizes are available upon request.
- \*Subjected to T&C

### Available Colour Options

-  White / ST-RM W01
-  Blue / ST - RM B02
-  Red / ST - RM R01
-  Golden Yellow / ST - RM GY01
-  Black / ST - RM B01
-  Brilliant Yellow / ST - RM BY01
-  Green / ST - RM G01

Note : The colour shades displayed are indicative and not precise representation of our actual paint colours.



- Glass beads content can be customized!
  - Paint colour can be customized!
- Contact us today for more information.

## MMA Road Marking Paint

Stir thoroughly



1-2 wt%  
BPO Powder

No heating is required

### Contact Us

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# ST. THERMOPLASTIC



## ROADLINE PAINT

### Product Highlight

- Single Component Solvent Paint
- Excellent abrasion resistance
- Fast Dry

### Product Variation

- Reflective Type ( Micronized Glass Beads)
- Non - Reflective Type

### Packaging

- 5 Liters

### Available Colour Options

-  White / ST-RL W01
-  Blue / ST - RL B02
-  Red / ST - RL R01
-  Golden Yellow / ST - RL GY01
-  Black / ST - RL B01
-  Brilliant Yellow / ST - RL BY01
-  Green / ST - RL G01

*Note : The colour shades displayed are indicative and not precise representation of our actual paint colours.*



- Glass beads content can be customized!
- Paint colour can be customized!  
*Contact us today for more information.*



### Contact Us

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EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)

## POLYURETHANE PAINT

### Product Highlight

- 2-Components Solvent Paint
- Highly Durable & High Performance
- Good Chemical Resistance

### Suitable Substrates

- Concrete Surface
- Metal Surface
- Steel & Galvanized Surface

### Packaging

- 5 liters set ( Include Hardener )



- Glass beads content can be customized!
- Paint colour can be customized!  
*Contact us today for more information.*

### Available Colour Options

	White / ST - PU W01
	Yellow / ST - PU Y01
	Golden Yellow / ST - PU GY01
	Bright Blue / ST - PU BB01
	Royal Blue / ST - PU RB01
	Black / ST - PU B01
	Green / ST - PU G01
	Red / ST - PU R01
	Executive Grey / ST - PU EG01
	Aluminum Grey / ST - PU AG01
	Misty Grey / ST - PU MG01
	Orange / ST - PU O01

*Note : The colour shades displayed are indicative and not precise representation of our actual paint colours.*

### Contact Us

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012-7204243 (SALES)

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EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)

# ST. THERMOPLASTIC



## EXPOXY PAINT

### Product Highlight

- 2-Components Solvent Paint
- Good Chemical Resistance
- Long - lasting
- Tough Finishing
- Highly Durable

### Suitable Substrates

- Concrete Surface
- Metal Surface
- Steel & Galvanized Surface

### Packaging

- 5 liters set ( Include Hardener )



- Glass beads content can be customized!
  - Paint colour can be customized!
- Contact us today for more information.

### Available Colour Options

	White / ST - EP W01
	Yellow / ST - EP Y01
	Golden Yellow / ST - EP GY01
	Bright Blue / ST - EP BB01
	Royal Blue / ST - EP RB01
	Black / ST - EP B01
	Green / ST - EP G01
	Red / ST - EP R01
	Executive Grey / ST - EP EG01
	Aluminum Grey / ST - EP AG01
	Misty Grey / ST - EP MG01
	Orange / ST - EP O01

*Note : The colour shades displayed are indicative and not precise representation of our actual paint colours.*

### Contact Us

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EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)

**ST. THERMOPLASTIC**



SAUJANA TERAJU

# ANTI-CORROSION UNDERCOAT



## Product Highlight

- Single Component Solvent Paint
- Consists of Zinc compound as corrosion inhibitor
- Tough Finishing
- Fast Dry

- *Glass beads content can be customized!*
- *Paint colour can be customized!*  
*Contact us today for more information.*

## Suitable Substrates

- Metal Surface
- Steel & Galvanized Surface

## Packaging

- 1 Liter
- 5 Liter
- 20 Liter

## Available Colour Options

■ White / ST - AU W01



## ANTI-CORROSION PAINT

### Product Highlight

- Single Component Solvent Paint
- Made up of Methacrylates Binder
- Good Weather Resistance
- Good Abrasion Resistance
- Matt Finish

### Suitable Substrates

- Metal Surface
- Steel & Galvanized Surface
- Wood

### Packaging

- 1 Liter
- 5 Liters
- 20 Liters

### Contact Us

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EMAIL : [stsaujana@gmail.com](mailto:stsaujana@gmail.com)



- Glass beads content can be customized!
- Paint colour can be customized!  
Contact us today for more information.

### Available Colour Options

	White / ST - AP W01
	Yellow / ST - AP Y01
	Golden Yellow / ST - AP GY01
	Bright Blue / ST - AP BB01
	Royal Blue / ST - AP RB01
	Black / ST - AP B01
	Dark Green / ST - AP DG01
	Traffic Red / ST - AP TR01
	Executive Grey / ST - AP EG01
	Aluminum Grey / ST - AP AG01
	Maroon / ST - AP M01
	Orange / ST - AP O01

Note : The colour shades displayed are indicative and not precise representation of our actual paint colours.

# ST. THERMOPLASTIC



## CYCLE LANE PAINT

### Product Highlight

- 3-Components Solvent Paint
- Highly Durable & High Performance
- Good Chemical Resistance
- High Skid Resistance

### Suitable Substrates



- Concrete Surface
- Asphalt Surface

### Packaging

BICYCLE LANE MARKING ( 10M2/set )

- Basement Coat (5 LITER)
- B.Cycle 2 Component Paint (Part A 4 LITER+ Part B 1 LITER)
- Aggregate (5KG)

### Available Colour Options

-  Blue / ST - CL B01
-  Green / ST - CL G01
-  Red / ST - CL R01



- Glass beads content can be customized!
- Paint colour can be customized!  
Contact us today for more information.



### Contact Us

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PHONE : 07-7541008 (OFFICE)  
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# ST. THERMOPLASTIC



SAUJANA TERAJU

## ANTI-SKID PAINT

### Product Highlight

- 3-Components Solvent Paint
- Highly Durable & High Performance
- Good Chemical Resistance
- High Skid Resistance

### Suitable Substrates






- Concrete Surface
- Asphalt Surface

### Packaging

ANTI-SKID PAINT ( 10M2/set )

- Basement Coat (5 Liter)
- Anti-Skid Paint
- (Part A 4 LITER+ Part B 1 LITER)
- Aggregate (5KG)

### Available Colour Options

-  White / ST - AS W01
-  Yellow / ST - AS Y01
-  Blue / ST - AS B01
-  Green / ST - AS G01
-  Red / ST - AS R01



- Glass beads content can be customized!
- Paint colour can be customized!  
Contact us today for more information.



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## ST ROLLABLE MMA

COLD-APPLIED PAVEMENT PAINTING PRODUCT

### Product Description

ST Rollable MMA is a durable 2 component cold plastic material that is made from MMA binder and premium materials.

It provides reliable, fast curing time in cold temperature and superior adhesion to both concrete and asphalt surfaces, which makes it extremely suitable for pavement marking and painting.

### Wide Range Of Colour Options

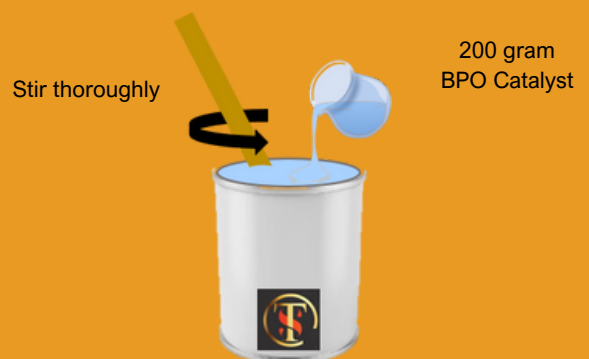
ST Rollable MMA comes in wide range of colour options, making it suitable for many different scheme. Standard colours are White, Yellow, Green, Traffic Red and Traffic Blue while other colours are available upon request.



- Glass beads content can be customized!
- Paint colour can be customized!  
Contact us today for more information.

### Pre-application Step Example

Mix MMA Paint with BPO Catalyst  
Recommendation : 2% of BPO Catalyst by weight)



10kg of Crimson Rollable MMA

*Adding too less BPO catalyst may cause the paint to cure slower or even remain uncure (wet).*

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# ST. THERMOPLASTIC



## ST ROLLABLE MMA

COLD-APPLIED PAVEMENT PAINTING PRODUCT



- Glass beads content can be customized!
- Paint colour can be customized!  
Contact us today for more information.

### Simple Application

ST Rollable MMA can be apply using ordinary tools like squeegee and roller which is available in conventional hardware shop. No special machine or burning is required.

### Packaging

- 4.5L (BPO catalyst is packed separately)
- 18 L (BPO catalyst is packed separately)

### Coverage

Typical coverage is approximately 1.5 - 2.5 kg/m , depends on type and surface conditions.

### Storage Method

Keep cool in a dry, covered protected area between 25°C – 35°C and must be stored out of direct sunlight. Product is stable for at least 12 months when stored properly.

### Typical Uses

- Bicycle Lane / Walkway
- Logos Painting
- Small scale works  
(Arrows, lane marking, & etc.)



### Product Highlights

- Superior Durability
- Fast Curing Speed (< 30 mins)
- Superior adhesion
- High slip resistance for better safety
- Fast & easy to apply



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**ST. THERMOPLASTIC**

# FLEXIBLE POST

**ONE PIECE CONSTRUCTION FOR  
GREATER DURABILITY**

**MATERIAL :**

**PU**

**SIZE :**

**80mm diameter X 750mm height**

**BASE :**

**200mm diameter**

**FIXING ACCESSORIES :**

**100mm L screw with plastic wall  
plug and washer**

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# ST. THERMOPLASTIC PVC FLEXIBLE DELINEATOR POST FLAT TYPE



## MATERIAL :

UPVC

## SIZE :

- 1500mm L x 110mm W x 3mm Thickness
- Reflective : 180mm L x 40 mm W

## COLOUR :

White + Red reflective

## WEIGHT :

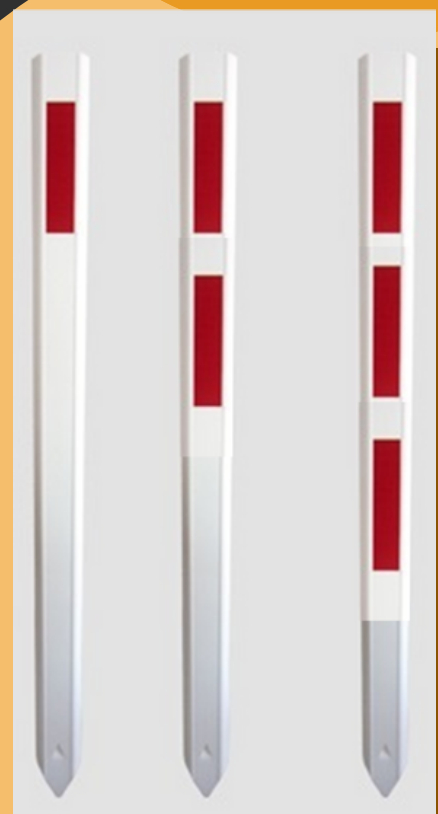
1.15 KG

## PACKING :

20 units / carton

## FEATURES:

- Reflective sheeting for continuous operation and longer life span.
- Fully functional and heightened visibility in all weather condition.
- Easy installation with no cable required.
- Durable, reliable and maintenance free.
- With 2 HIP reflective.



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# DELINEATOR POST



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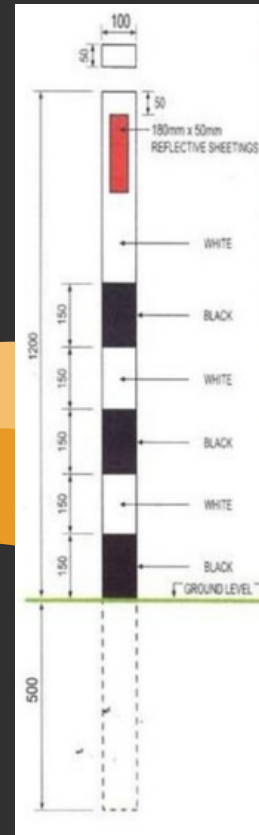
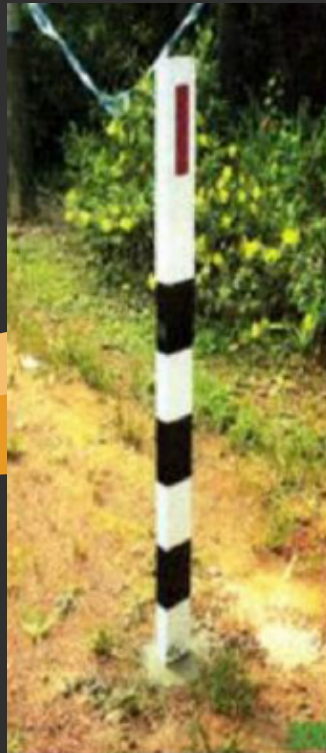
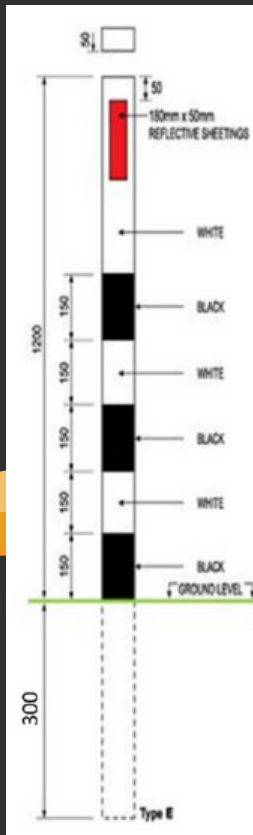
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## 1700

### FEATURES:

- UPVC Pipe materials
- Reflective sheeting's for continuous & longer life span
- Easy installation with no cable required

### SEPCIFICATION:

- 100mm (L) x 50mm (W) x 1700mm (H)

### COLOUR :

- White

## 1500

### FEATURES:

- UPVC Pipe materials
- Reflective sheeting's for continuous & longer life span
- Easy installation with no cable required

### SEPCIFICATION:

- 100mm (L) x 50mm (W) x 1500mm (H)

### COLOUR :

- White

**ST. THERMOPLASTIC**



# ST RETRO REFLECTIVE TESTING SERVICES

**SOUTHERN AREA**

**We provide a testing service for road markings. Tests carried out include measuring the retro reflectivity, luminance and skid resistance of a road marking.**



**The instrument complies with international standards**

EN 1436 (RL & Qd), ASTM E1710 (RL), ASTM E2177 (RL wet), ASTM E2302 (Qd), ASTM E2367 (night colors), ASTM 2832 (continuous wetting)

## **Contact Us**

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# ST. THERMOPLASTIC



# ST MARKING THICKNESS GAUGE

ST's Marking Thickness Gauge is a digital device for measuring the thickness of pavement markings dry, after application. The Marking Thickness Gauge is very easy to operate and comes in a sturdy construction and ergonomic design. The Marking Thickness Gauge can measure markings within the measurement range of -12.7 mm to +12.7 mm / -0.5 inch to +0.5 inch. The digital display provides reliable measurement results in seconds.



## SPECIFICATIONS

Dimensions: 80 x 70 x 130 mm  
Weight : 950 gr  
Material: Stainless steel

## DIGIMATIC INDICATOR

Resolution: 0.01 mm  
Range: +/- 12.7 mm  
Accuracy: 0.02 mm  
Display: LCD

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SAUJANA TERAJU

## ST. THERMOPLASTIC

# NOTES

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- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

# THANK YOU



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