



# Asphalt & other Road Construction Materials

**STRAIT PATH BUILDERS, INC.**  
**NO. 9 ST PETER ST, BATASAN RD.,**  
**SAN MATEO, RIZAL**  
**TEL#8715017/4199787**

**FAX#4777748**

**Website: [www.straitpathbuilders.com](http://www.straitpathbuilders.com)**

Asphalt 60/70, Emulsified Asphalt SS1, CSS1, Cutback MC-70, Asphalt Sealant, Asphalt Coldmix, Swareflex Road Studs, Pre-molded Expansion Joint Sealant, Thermoplastic Machine, Reflectorized Traffic Paint



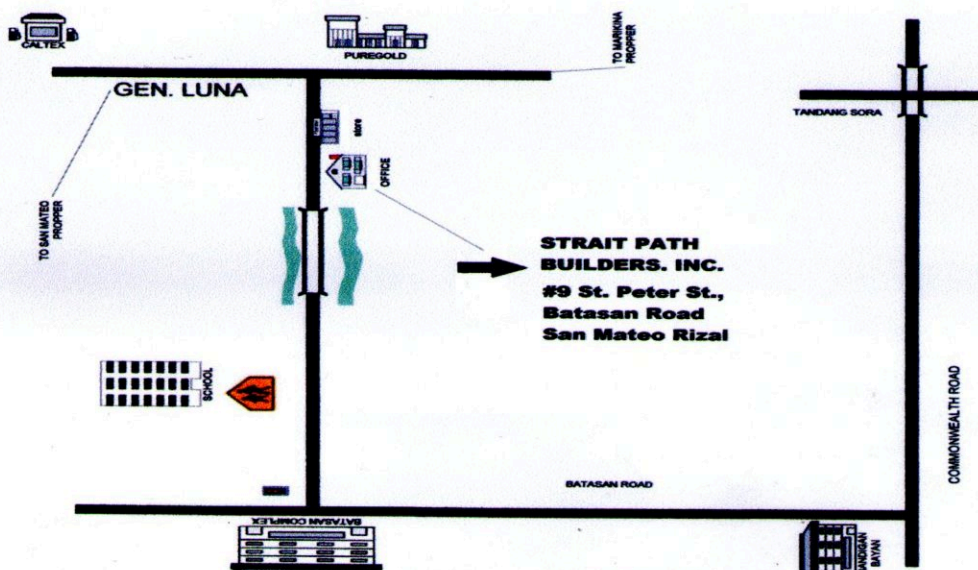
**STRAIT PATH BUILDERS, INC.** is engaged in providing quality products of Asphalt road materials such as Asphalt Cement 60/70 & 85/100, Emulsified Asphalt CSS/SS-1, Cutback Asphalt MC-70 Coldmix Asphalt, Crack Sealants.

SPBI also provide and install a wide variety of WATERPROOFING MEMBRANES and coatings for all types of surfaces. Waterproofing materials and systems were engineered to every definite substrate to effectively serve its function.

**OBJECTIVE:**

STRAIT PATH BUILDERS, INC will pursue continues improvement through its invaluable human resource, a synergy of ideas and a common goal for the improvement of standard of living of the Filipinos

STRAIT PATH BUILDERS, INC is located at No. 9 St. Peter St., Batasan Rd., San Mateo, Rizal with Telephone Numbers 02-8715017,02-4777748/3590858



PRODUCT LIST  
 ASPHALTS & OTHER ROAD CONST. MATERIALS

Asphalt Cement 60/70	200 kgs per drum
Cutback MC-70	200 kgs per drum
Bitumul SS-1	200 kgs per drum
Cationic CSS-1 /CRS-1	200 kgs per drum
Coldmix Asphalt	40 kgs/ pail
Crack Sealant (Hard Asphalt)	25 kgs/ bag
Cationic CCMB	200 li/drum
Cationic CCMC	200 li/drum
Traffic Paint (Reflectorized Paint)	20li per pail
Road Pavement Studs - Swareflex	4" x 4"
Road Pavement Studs - Tiger eye (Tempered glass marker)	Sig-24
Concrete Curing Compound	200 li/drum
Pre-molded Expansion Joint Filler	3 ft x 10 ft (1/2", 3/4", 1", 3")
Road Pavement Marker & Applicator Machine	1 set
Thermoplastic Powder	25 kgs/ bag
Glass Beads	25 kgs/ bag

METAL FLEX BEAM

ROAD CONSTRUCTION PRODUCTS	PACKAGING/SIZE
METAL GUARD RAIL (LOCAL FABRICATE)	
GUARD RAILS-G.I. FLEX BEAM	12" X 8 FT gauge #12
GUARD RAILS-G.I. FLEX BEAM	12" X 10 FT gauge #12)
GUARD RAILS-G.I. FLEX BEAM	12" X 12 FT gauge #12
GUARD RAILS-G.I. FLEX BEAM	14" X 8 FT gauge #12
GUARD RAILS-G.I. FLEX BEAM	14" X 12 FT gauge #12
GUARD RAILS-G.I. FLEX BEAM	14" X 14 FT gauge #12
STEEL GUARD RAIL POST	4" X 5 FT G.I. Pipe Sch 20
STEEL GUARD RAIL POST	4" X 5FT G.I. Pipe Sch 40
STEEL SIGNAGE POST	3" X 10FT G.I. Pipe Sch 40
STEEL SIGNAGE POST	2" X 10FT G.I. Pipe Sch 40
STEEL END RAIL (END BEAM) Painted aluminum	12" X 700 mm Gauge# 14
STEEL END RAIL (END BEAM) Painted Aluminum	14" X 700 mm Gauge # 14
STEEL END RAIL (END BEAM) Painted aluminum	12" X 700 mm Gauge# 12
STEEL END RAIL (END BEAM) Painted Aluminum	14" X 700 mm Gauge # 12
Post Bolt, Nut and washer Hot dipped galvanized, Button head with nut 33.3mm	16 mm x 45 mm L
Beam washer 3.2mm thick plate 20mm x 25mm oval hole	44mm x 75mm L

Office Address: #9 St. Peter St., Batasan Rd. San Mateo Rizal  
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**PRODUCTS:** ASPHALT60/70,SS-1,CSS,MC-70, ASPHALT SEALANT, CURING COMPOUND, CATS EYE, TRAFFIC PAINTS, WATERPROOFING MATERIALS, THERMO POWDER, ETC.

# **ASPHALT SEALANT/(HARD/OXIDISED)**

OXIDISED ASPHALT is a premium quality product manufactured from ductile, pliable bitumen and plasticizing oil blown to optimum and uniform softening point and penetration.

Blown grade bitumen is widely used in pipe coating, manufacturing of roofing felts, damp proofing coarse, paint sealant, battery sealers, electric cable protection, joint filling compounds, etc.

## **OUTSTANDING FEATURES:**

OXIDISED ASPHALT is highly stable during melting due to blowing at optimum temperature to minimize softening point fall back. Available in plastic and Kraft Paper bags for ease of handling, waste and disposal elimination. The plastic melts and becomes part of bitumen, thus saving labor and material cost.

<b>PHYSICAL PROPERTIES</b>		
<b>PROPERTIES</b>	<b>RESULT</b>	<b>METHOD</b>
1. Penetration (dmm): @ 25 C	10-20	ASTM D5
2. Softening point degree 'C' (R&B)	110-120	ASTM D36
3. Ductility (cm) @ 25 C min.	2.0	ASTM D 113
4. Solubility in trichloroethylene (%Wt)	99.50	ASTM D2042
5. Flashpoint COC, C	310.0	ASTM D92
6. Specific Gravity @ 25 C	1.01	ASTM D70

## **HEALTH & SAFETY:**

1. Fire-Non-flammable; flashpoint is above 250 C. However avoid overheating above flashpoint as it could ignite.
2. Skin-If contact occurs while hot, it could cause severe burn. If contact occurs, immediately cool affected area with cold water. It is recommended that a bucket of ice water be kept nearby. Seek medical attention.
3. Eyes-If contact occurs, immediately cool with cold water, then seek medical attention.

PACKAGING: @ 40 kgs/Bag & 25kgs/Bag

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# **ASPHALT CEMENT 60/70**

Bitumen 60/70 is a high quality penetration grade asphalt derived from crude petroleum refining. It is dark in color and possesses waterproofing and adhesive properties. It is substantially non-volatile and softens gradually when heated.

## **USES:**

Asphalt Cement 60/70 is used as a binder of mineral aggregates in asphalt concrete and hot laid plant mix for highways, airports, parking areas, driveways and curbs.

PHYSICAL PROPERTIES		
PROPERTIES	RESULT	METHOD
1. Penetration @ 25 C	60/70	ASTM D5
2. Ductility (cm) @ 25 C min.	100 min	ASTM D 113
3. Solubility in trichloroethylene (%Wt)	99.min	ASTM D2042
4. Flashpoint COC, C	232min	ASTM D92
5. Ductility of Residue 25o C	75 min	
6. Penetration of Residue % of original	47 min	

## **3. Safe Handling and Storage:**

### **3.1 Handling:**

- Use Personal Protective Equipment (PPE's) when handling (i.e. gloves, eye protectors, etc.)
- Maintain safe heating temperatures when using this product
- Avoid contact with skin, eyes and clothing.
- Avoid breathing vapor, spray or mists when applying.

### **3.2 Storage:**

#### **3.2.1 Drums**

Keep drums in a cool, well-ventilated place.

#### **3.2.2 Bulk Storage**

- Tanks must be specifically designed for use with this product.
- Tanks should be provided with a heating facility.
- Ensure heating coils are always well covered with product (min. 15 cm).
- Prevent ingress of water.
- Use lowest practicable storage temperatures and avoid through-draughts of air to minimize risk of generating a flammable condition in the tank space.

## **4. Packaging**

Asphalt Cement 60/70 is available in 200 kg. drums.

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# **EMULSIFIED ASPHALT**

## **(CSS-1)**

### **1. DESCRIPTION**

CSS-1 /C SS-1h are slow-setting, cationic type of asphalt emulsions manufactured according to specifications of ASTM D977 - "Standard Specifications for cationic Emulsified Asphalt."

It is a dispersion of small droplets of penetration grade asphalt cement in water with the aid of an emulsifier. The size of the droplets is normally in the order of 1-20 microns, with some particles as big as 100 microns. Since these droplets are negatively charged, breaking (coalescence) is purely by evaporation of water.

### **2. USES**

**2.1 Tack Coat** - a very light application of diluted asphalt emulsion. It is used to ensure a bond between a surface being paved and the new course. Tack coating is one of the major uses of CSS-1. It is used to guarantee adhesion of hot mix or cold mix asphalt overlay to existing asphalt paved roads.

Method of application: by spray (distributor)

**2.2 Fog Seal** - a light application of asphalt emulsion diluted with water, similar to tack coat. It is used to renew old asphalt road surfaces that have become dry and embrittled with age, to fill tiny cracks and surface voids and to inhibit raveling. No other surface treatment is applied after fog sealing.

### **3. STORING AND HANDLING**

- ❖ Emulsions are stored between 10oC and 60oC, depending on the temperature required for application. When stored at higher temperatures, the tanks must be insulated. Hot water or steam can be used as the heating medium. Oil burners are also used.
- ❖ CSS-1/CSS1-h should not be heated to above 60oC or else the material can no longer be used as intended. While heating during transport and in tanks or distributors it should be agitated to eliminate or reduce skin formation.
- ❖ At tank storage, a light agitation is performed to avoid settlement (forced air is not recommended as it will cause the emulsion to break). At drum storage it is recommended to roll the drums before use to ensure homogeneity.
- ❖ Before diluting CSS-1 the compatibility of the water with the emulsion must be checked. The water should always be added to the emulsion, not the emulsion to the water.
- ❖ CSS-1 must not be mixed with anaionic asphalt emulsions or other types of products in storage tank transports, or distributors.

**4.PACKAGING** - available in bulk and 200 kg. drums.

**Method of application: by spray (distributor)**

### **TYPICAL PROPERTIES**

Tests on emulsion: ASTM D244

Viscosity, Saybolt Furol @ 25 oC, s 20 - 100 20 - 100

Storage stability test, 24 hr., % wt. 1.0 max 1.0 max

Sieve test, % wt. 0.10 max. 0.10 max.

Residue by distillation, % wt. 57 min. 57 min.

Particle Charge Test --Positive

Tests on residue from distillation:

Penetration @ 25 oC, 100 g, 5 s ASTM D5 40 - 90 100 - 200

Ductility @ 25 oC, 5 cm/min, cm. ASTMD113 40 min 40 min

Solubility in trichloroethylene, % wt. ASTM D2042 97.5 min 97.5 min

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# **EMULSIFIED ASPHALT**

## **(SS-1/SS1-h)**

### **1. DESCRIPTION**

SS-1 / SS-1h are slow-setting, anionic type of asphalt emulsions manufactured according to specifications of ASTM D977 - "Standard Specifications for Anionic Emulsified Asphalt."

It is a dispersion of small droplets of penetration grade asphalt cement in water with the aid of an emulsifier. The size of the droplets is normally in the order of 1-20 microns, with some particles as big as 100 microns. Since these droplets are negatively charged, breaking (coalescence) is purely by evaporation of water.

### **2. USES**

**2.1 Tack Coat** - a very light application of diluted asphalt emulsion. It is used to ensure a bond between a surface being paved and the new course. Tack coating is one of the major uses of Spramul SS-1h. It is used to guarantee adhesion of hot mix or cold mix asphalt overlay to existing asphalt paved roads.

Method of application: by spray (distributor)

**2.2 Fog Seal** - a light application of asphalt emulsion diluted with water, similar to tack coat. It is used to renew old asphalt road surfaces that have become dry and embrittled with age, to fill tiny cracks and surface voids and to inhibit raveling. No other surface treatment is applied after fog sealing.

### **3. STORING AND HANDLING**

- ❖ Emulsions are stored between 10oC and 60oC, depending on the temperature required for application. When stored at higher temperatures, the tanks must be insulated. Hot water or steam can be used as the heating medium. Oil burners are also used.
- ❖ SS-1/SS1-h should not be heated to above 60oC or else the material can no longer be used as intended. While heating during transport and in tanks or distributors it should be agitated to eliminate or reduce skin formation.
- ❖ At tank storage, a light agitation is performed to avoid settlement (forced air is not recommended as it will cause the emulsion to break). At drum storage it is recommended to roll the drums before use to ensure homogeneity.
- ❖ Before diluting SS-1 the compatibility of the water with the emulsion must be checked. The water should always be added to the emulsion, not the emulsion to the water.
- ❖ SS-1 / SS-1h must not be mixed with cationic asphalt emulsions or other types of products in storage tank transports, or distributors.

**4. PACKAGING** - available in 200 kg. drums.

**Method of application: by spray (distributor)**

### **TYPICAL PROPERTIES**

Test Method SS-1h SS-1

Tests on emulsion: ASTM D244

Viscosity, Saybolt Furol @ 25 oC, s 20 - 100

Storage stability test, 24 hr., % wt. 1.0 max

Cement mixing test, % wt. 2.0 max

Sieve test, % wt. 0.10 max.

Residue by distillation, % wt. 57 min.

Particle Charge Test --

Tests on residue from distillation:

Penetration @ 25 oC, 100 g, 5 s ASTM D5 40 - 90 100 - 200

Ductility @ 25 oC, 5 cm/min, cm. ASTM D113 40 min

Solubility in trichloroethylene, % wt. ASTM D2042 97.5 min







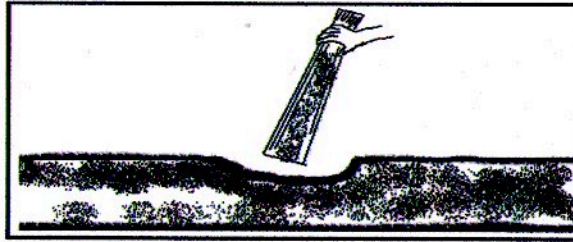
## Asphalt Coldmix (Instant Patchmix)

Asphalt coldmix (Instant patchmix) is composed of coarse and fine aggregates mineral fillers and special binders made from bitumen resin adhesives, and special additives.

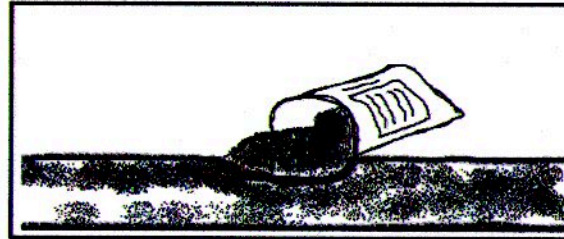
It conforms to item 308 and 309 of the DPWH specification as a permanent wearing course.

### COVERAGE:

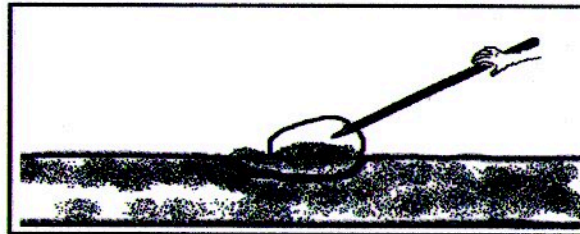
Approximately 0.31 M<sup>2</sup> X 50 mm per 40 Kg.



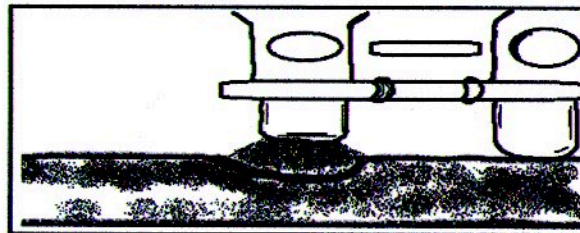
STEP 1: Clean pothole with stick broom to remove loose debris or standing water.



STEP 2. Pour coldmix to the pothole to about an inch above the road level.



STEP 3. Spread evenly, compact mix with the shovel and tamp down the cold mix with the flat of a shovel or tamper.



STEP 4. Traffic can be allowed to pass on sharp edge of the area immediately

### Features:

- Superior quality materials for overlay and road repair work.
- Repairs any size and depth of potholes instantly and permanently.
- Superb adhesion to asphalt, cement or other Road surfaces.
- Very easy to apply: can be used immediately after Application.
- Perfect for old and new roads, driveways parking lots playgrounds, and airport runways.
- No mixing, no waste, no special tools or skills,
- No prime coat or rolling needed.
- Durable and economical.
- Good for all weather use.
- Not affected by water, extreme heat, or cold.
- Long storage life - approximately 10 months
- Environment friendly, non-toxic, non-flammable.



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# STRAIT PATH BUILDERS, INC

## Cutback MC-70

### DESCRIPTION:

It is a medium curing cutback asphalt consisting of penetration grade asphalt cement blended with petroleum solvent that temporarily reduces viscosity of the asphalt cement for ease of handling and application. After application, the petroleum solvent evaporates leaving asphalt cement to perform its function

It is used mainly in road construction as a prime coat of the base course. It conforms to the requirements of ASTM D2027-82

### PACKAGING:

Drum—190 kg per drum

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"In all His ways acknowledge  
Him and He shall make your path  
straight.."



## CURING COMPOUND-WAX BASE

### DESCRIPTION

HERNCURE-W concrete curing compound is a white colored wax based product. A special formulation easily applied on concrete surfaces which are to be finished as poured like roads, and walls, columns, dams, culverts and any concreting work where subsequent topping is not necessary.

### USAGE

After surface water or bleed water has disappeared or immediately after initial set, apply HERNCURE-W curing compound by brush, spray or broom to form a continuous, unbroken membrane. In walls and columns, apply immediately after forms are stripped. Do not apply curing compound when there is still bleed or surface water.

### LIMITATION

HERNCURE-W Concrete Curing Compound is specially made and formulated to form a tough membrane, free from pinholes, which will effectively seal the concrete surface to prevent moisture loss by evaporation.

### PERFORMANCE

1. This wax membrane is formed when water of the compound has evaporated. This membrane seals the concrete surface and prevents water and moisture loss from the concrete matrix and will ensure completely hydration of the cement.

2. Since this is a white colored curing compound, it will effectively reflect heat from the sun and atmosphere, thus, lowering concrete surface temperature.

3. HERNCURE-W Curing Compound is formulated to comply with ASTM C-309/66 for liquid chemical curing compound and AASHTO M-148 Type II and has satisfactorily passed the Bureau (Department) of Public Highways, Materials Testing Laboratory, tests for curing specifications.

4. HERNCURE-W can be used effectively on horizontal or vertical surfaces and is extremely safe and non-toxic. It exhibits no harmful effect on both personnel and equipment. As formulated, it is non-flammable.

5. The film or membrane formed will usually abraded with continuous traffic.

### COVERAGE

Apply HERNCURE-W Concrete Curing Compound at no more than 300 square feet per gallon to cure to the requirements of ASTM-C-309 and AASHTO M-148 Type II.

### PACKAGING

1 gallon  
5 gallons  
55 gallons/drum

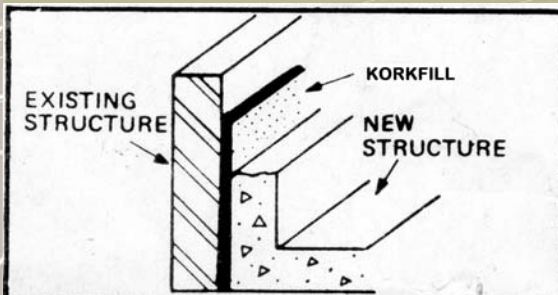
# KORKFILL

## PRE MOLDED NON-EXTRUDING JOINT FILLER

### FEATURES

- Economical & non-extruding type
- Recovers to more than 90% of original thickness after compression
- Low moisture absorption
- Resists insects, Fungi
- Handles easily w/o breakage

KORKFILL installed between an existing and a new structure where it is designed to operate as a separation and expansion/settlement joint.



### DESCRIPTION

It is made from selected granulated cork bonded with hot bitumen and pre-molded between heavy asphalt felt paper. It is very resilient and is designed for easy installation. Virtually, water, insect and fungus resistant, will not extrude or deform while under compression.

### USAGE

KORKFILL is a general joint filler for expansion joints in all types of concrete construction. It is very effective for highway work, airfield pavement, floor slabs and driveways where a bituminous type sealer will seal the top of the joint. It has also been used for vibration insulation between slabs and perimeter placement.

### SITE HANDLING

KORKFILL can be stored in the open sites. It will not break or twist with ordinary handling. To cut, use a straight edge and sharp knife to score both sides to a depth of 1/4", then break along the line.

### LIMITATION

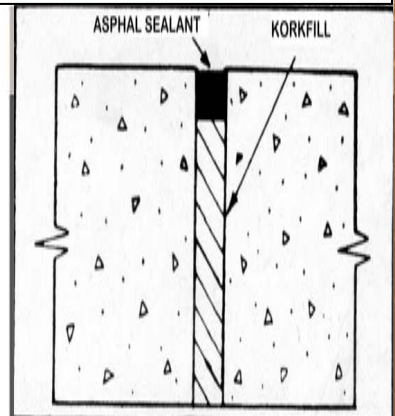
KORKFILL pre-molded joint fillers should not be used as a filler or backing with polymer based sealants like polysulfide, polyurethane and acrylic like use only with any other asphalt based joint sealer

### SIZE:

1/4" X 3' X 10'	2" X 3' X 10'
1/2" X 3' X 10'	3/4" X 3' X 10'
1" X 3' X 10'	3" X 3' X 10'

Up to any thickness

KORKFILL used as a joint filler between concrete slabs for roads, hard standings, runways and structural work. Exposed surface of joints being sealed with a sealing compound selected to meet the specific requirements of the design



### SPECIFICATIONS:

Designed to meet or exceed the following:

AASHTO spec. M213-65

ASTM spec. D-1751-65

FED. Spec. HH-F-34le type 1

Corps. Of engrs. Spec. CRD c-508-66

Navy BY&D spec 13 Yg, item 2.11

Navy BY &D spec 46yd, item 2.4.1

FAA spec. P501-2.4 & P610-217

Ministry of Public Building & Works

General specification No. 201 for Airfield Pavements

Ministry of Transport Specification

For Road & Bridgework-Clause 2922



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# SWAREFLEX - REFLECTIVE PAVEMENT STUD - RPS-22



COLORS: White & Yellow  
ORDER CODE : 44W & 44Y

SWAREFLEX Pavement Stud made of pressure casted aluminum alloy, a light but durable materials, designed to prevent damage to vehicle tires when in contact with the stud. Raised profile and reflectivity makes it a superb lane guide to motorists and helps prevent vehicle collisions and other accidents. Reflectors have an excellent intense reflectivity in conformity with the standards set by the Philippine Department of Public Works and Highways. Very visible at night and in bad weather conditions. Reflecting media enclosed in high quality acrylic plastic materials making the reflectors last for a long period of time. Shunk is design engineered to prevent breakage when installed on pavement and ease in installation.

## TECHNICAL SPECIFICATIONS

WEIGHT: 400 Grams  
MATERIAL: Aluminum alloy  
SIZE:  
TOP: 80mm  
Bottom: 100mm  
Thickness 25mm  
SHUNK SIZE:  
Base: 20mm  
Tip 15mm  
Length: 65mm  
CRUSH TEST:  
Load 190,000 lbs  
TOTAL SURFACE AREA OF:  
Reflector (2 sides) 20.16 sq.m

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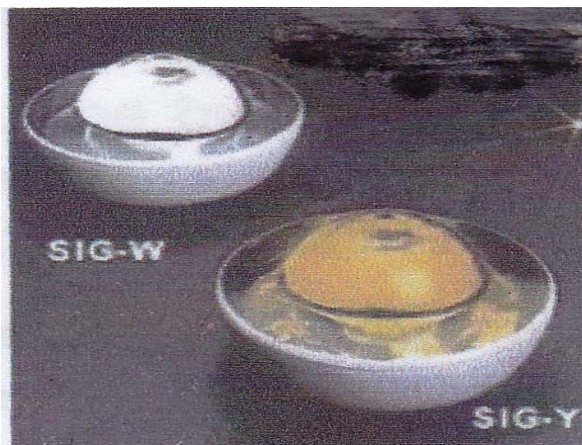
## REFLECTIVE STUD - TIGER EYE Tempered glass reflecting marker (SIG-25)

Enhance the reflection of road marking lines during the raining night since the tiny glass beads in the thermoplastic are non-reflective in the rainy water.

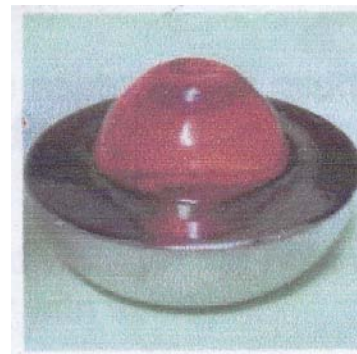
Guiding traffic in the freeways or winding curves at night in the addition to the road marking lines, and providing safer visual environment. The tiny glass beads in the thermoplastic fall off easily: thus the reflection of road marking lines declines extensively. the bumping action will alert the motorists when they change lanes

COLOR AVAILABLE

-Self- color ; white, yellow



Coating color - red



Features:

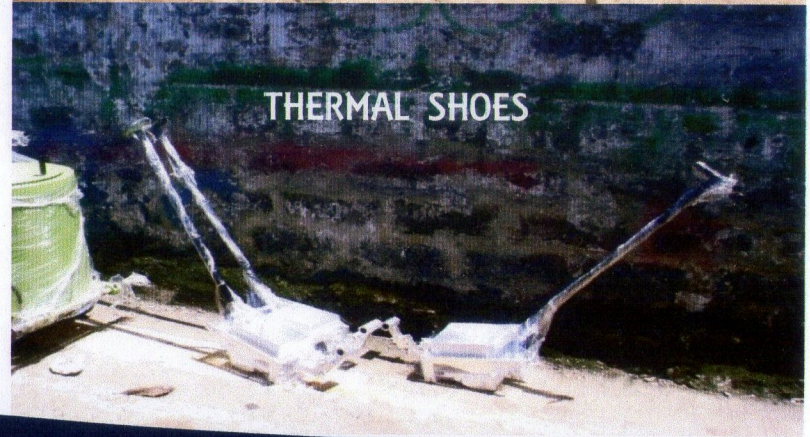
- No blind spot in any curve
- High degree of surface hardness and slip-proof surface; the reflection can last extremely long.
- High strength and long durability
- The protruding part is 100% reflective.



**KNEADING MACHINE**



**APPLICATOR MACHINE**



**THERMAL SHOES**

**Thermoplastic Melting Kneader (Double Pot System)**

Type:	Hydraulic System Kneader, Double Pot System
Dimension:	1800mm x 700mm x 1060
Weight:	800kg.
Pot Capacity:	200kg (10 bags at 25 kgs)
Stirring:	Rotating blades (6 blades)
Drive System:	Hydraulic motor
Heat Source:	LPG x 50kg
Temp. Measurement:	0-300 deg. Celsius
Engine:	Kubota Diesel Engine, 7.5hp

**Thermoplastic Road Marker Applicator**

Type:	Man-powered type applicator machine
Length:	1200mm x 900mm
Width:	900mm
Weight:	200kg.
Heat Source:	LPG
LPG Cylinder:	11kg.
Kettle Capacity:	100kg. (4 bags at 25kg.)
Glass Beads Box Capacity:	10kg.
Thermal Shoe Line Width:	10cm, 15cm, 30 cm

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