



TECH SERIES ROAD MARKING

A single pack, high-quality, quick drying, matt coating with maximum wear and weather resistance. Formulated especially for the painting and demarcation of roads, paving, and other floors types for multiple purposes and applications.

FEATURES & BENEFITS

- Excellent Adhesion to Most Road, Floor & Paving Substrates.
- Reduces Coning Requirements
- Increases Line Length Per Working Day.
- Excellent Day & Night Visibility
- Superior Wear and Weather Resistance
- Superior Durability
- Single Pack & Ready for Use
- Formulated in Accordance with SANS 731 (Pt.1 Types 1 & 2)
- Quick Drying
- Extended Retro Reflectivity capabilities
- Easy to Use & Apply
- Lead content < 90 ppm
- Excellent Glass Bead Retention

APPLICATIONS OF USE

- Ideal for surface demarcation and marking of traffic, safety, and other miscellaneous information.
- Provides the surface with a distinct colour coating which yields excellent visibility during both day and night.
- Providing demarcation and marking information with reflective capabilities by means of reflective beads.
- Provides surfaces with a coating that is extremely wear and weather resilient.
- Provides the surface with anti-skid capabilities.
- Ideal and suitable for application to various types of roads, paving, and other flooring substrate materials.
- Ideal and suitable for application of but not limited to, airstrips, airports, roads, parking areas, highways, streets, curbs, airports, factories, warehousing, playgrounds, retail centres, schools, and shopping centres etcetera.
- Additionally, suitable for use as a decorative coating for industrial applications of road, paving and floor substrates.
- Ideal and suitable for substrates in environmental conditions found in coastal, offshore and industrial environments.

COMPATIBLE SURFACES

With appropriate surface preparation, Road Marking is ideal and suitable for direct application to the below road, paving and floor substrate material types and surface conditions:

- Asphalt mixtures
- Bitumen mixtures
- Stone
- Tar & Chip
- Concrete
- Pre-Cast Concrete
- Steel Floated Concrete
- Power floated concrete
- Wood Floated Concrete
- Masonry
- Gypsum Plaster
- Cement Plaster
- Cement Concretes
- Fibre Cement
- Flexible & Rigid Paving
- Brick
- Cobblestone
- Rubberised flooring.
- Previously Painted Surfaces

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PRODUCT INFORMATION - PHYSICAL & TECHNICAL INFORMATION

PRODUCT SPECIFICATION:	SANS 731 (part. 1 – types 1 & 2).
PHYSICAL FORM:	Highly flammable viscous coloured liquid containing pigments.
FINISH:	Smooth Matt
COLOURS:	White, Golden Yellow, Signal Red and Black.– Colour Card
PACK SIZES:	1L, 5L & 20L
VISCOSITY 23°C:	85-90
KUSPECIFIC GRAVITY [SG] 23°C:	1.4 ± 0.1 kg/L
MASS SOLIDS:	65-69%
VOLUME SOLIDS:	43-47%
POLYMER TYPE:	Modified alkyd resin
PIGMENTS:	Light-fast types
PH:	NA
FLASH POINT:	23°C

PRODUCT INFORMATION - APPLICATION INFORMATION

MIXING :	Mix stir with use of a flat paddle or a paint mixer until homogeneous.
APPLICATION SPECIFICATION:	See Advised Application and Directions of Use section
APPLICATION APPARATUS:	Apply with use of correct Brush, Roller, and/or Spraying apparatus.
BRUSH:	Go Paint, 'Smooth One Brush' or Go Paint, 'Wood One Brush'
ROLLER:	Go Paint, 'Green One Roller' or Go Paint, 'Smooth One Roller'
SPRAYING:	Airless Spraying Equipment / Road Lining Spray Machine
REQUIRED COATS:	One – ensure adequate film thickness.
THEORETICAL SPREAD RATE:	1.50 – 1.95 m ² per ℓ [dependant of the surface type and the porosity]
RECOM. FILM THICKNESS:	WFT: 510 - 550µm per coat DFT: 230 - 250 µm per coat
PRACTICAL SPREAD RATE:	15 linear meters per ℓ for 100 mm stripe [1.5 m ² per ℓ] WFT: 666µm & DFT: 300µm
PRACTICAL SPREAD RATE:	19.5 linear meters per ℓ for 100 mm stripe [1.95 m ² per ℓ] WFT: 510µm & DFT: 230µm
DRYING PROPERTIES:	No-Pick Up Time: 15 minutes maximum, when thinned: 30 minutes maximum.
RECOATING TIME:	2 – 4 hours depending on drying conditions and film build. Only one coat is recommended.
THINNING:	Product is RFU. Only if required, thin by maximum of 5% with use of recommended thinner.
THINNER:	'Toluene' thinners
CLEANING:	Equipment and tools are readily cleaned while paint is wet with use of Toluene thinners. Cured dried paint can be removed and cleaned using Lacquer thinners, commercially available brush cleaners and/or Paint Stripper

PRODUCT INFORMATION - STORAGE INFORMATION

STORAGE CONDITIONS:	Store in a well-ventilated cool area away from direct sun and severely cold conditions.
STORAGE TEMPERATURE:	Maintain an atmospheric temperature of 23°C variance of ± 23 °C
SEALED SHELF LIFE:	Sealed product has a shelf life of 1 years
UNSEALED SHELF LIFE:	Product is not recommended to kept unsealed. Finish during use.

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SEALING:	For optimal shelf-life period after product use, ensure the packaging is

SURFACE PREPARATION

- All accounts of severely damaged substrates must be removed and replaced/reinstated. Sever accounts of damaged substrates where the damage pertains to structural facets of the substrate, such as but not limited to; spalling, structural cracks and honeycombing etcetera are to be repaired in accordance to the specification of a person/party with the required expertise. i.e. a structural engineer.
- Remove all weak, friable, defective, and damaged substrate material from the substrate. Remove all accounts ensuring only sound areas of the substrate remain. The area must be cleaned, prepared, and repaired/reinstated with the appropriate substrate repairing product as per the relevant manufacture's specification or a person/party with the required expertise.
- Ensure the surface is suitable for application of Road Marking by attaining a sound surface, that is free of all contaminants with a profile/surface that permits optimal adhesion by means of Surface Preparation Methods appropriate to the undesired state. Each account may require only one or a combination of specific methods. There are three classes of Surface Preparation methods in which all specific methods are grouped: Surface Cleaning Methods, Mechanical Surface Preparation Methods and Surface Preparation Products.

In no particular order, for each undesired account & unsuitable condition below, carry out the advised surface preparation works & methods.

DUST, SAND, GRAVEL, LOOSE PARTICLES: Removed by means of dusting, brushing, wiping, washing, air blasting cleaning, vacuum cleaning, water cleaning and/or high-pressure water jetting methods.

BY-PRODUCT MATERIALS FROM PREPARATION WORKS: Many preparation methods may result-in/produce a by-product of loose materials which are classified as contaminants themselves. After use of methods, remove all by-product material by means of dusting, wiping, washing, water cleaning, vacuum cleaning, air blast cleaning and/or high-pressure water jetting.

PREPARATION PRODUCTS: Most products used (not permanently applied) must be removed after use. Remove all traces of the products from the surface after use. If not specified otherwise, remove by means of water cleaning, vacuum cleaning, air blast cleaning and/or high-pressure water jetting.

LAITANCE: Remove all laitance from substrate surfaces by means of Abrasive|Shot Blasting, Grinding or Acid Etching. For Acid Etching use a solution of hydrochloric acid, PROMAC PAINTS, GRANNOZINC or a similar quality alternative acid etching product. Remove all traces of the acid etching product from the surface after use or any by-product material as a result of Abrasive | Shot Blasting.

SMOOTH | HARD SUBSTRATE SURFACES: Strong, Smooth and Hard substrate surfaces must be profiled until the surface is suitable for application and adhesion. Profile by means of Abrasive|Shot Blasting, Grinding or Acid Etching. For Acid Etching, use a solution of hydrochloric acid, PROMAC PAINTS, GRANNOZINC or a similar quality alternative acid etching product. Remove all traces of the acid etching product from the surface after use or any by-product material as a result of Abrasive | Shot Blasting.

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- All accounts of severely damaged substrates must be removed and replaced/reinstated. Sever accounts of damaged substrates where the damage pertains to structural facets of the substrate, such as but not limited to; spalling, structural cracks and honeycombing etcetera are to be repaired in accordance to the specification of a person/party with the required expertise. i.e. a structural engineer.
- Remove all weak, friable, defective, and damaged substrate material from the substrate. Remove all accounts ensuring only sound areas of the substrate remain. The area must be cleaned, prepared, and repaired/reinstated with the appropriate substrate repairing product as per the relavent manufacture's specification or a person/party with the required expertise.
- Ensure the surface is suitable for application of Road Marking by attaining a sound surface, that is free of all contaminants with a profile/surface that permits optimal adhesion by means of Surface Preparation Methods appropriate to the undesired state. Each account may require only one or a combination of specific methods. There are three classes of Surface Preparation methods in which all specific methods are grouped: Surface Cleaning Methods, Mechanical Surface Preparation Methods and Surface Preparation Products.

In no particular order, for each undesired account & unsuitable condition below, carry out the advised surface preparation works & methods.

DUST, SAND, GRAVEL, LOOSE PARTICLES: Removed by means of dusting, brushing, wiping, washing, air blasting cleaning, vacuum cleaning, water cleaning and/or high-pressure water jetting methods.

ADDITIONAL INFORMATION

PARAMETERS AND SPECIFICATION FOR METHODS: All Methods will have variable parameters and specifications of use, such as but not limited to; surface preparation product dilution mixing ratios and dwelling time, Abrasive paper's grit value, Abrasive | Shot Blasting type of method, strength, granule type and size. All parameters & specifications must be fixed appropriate to the substrate type and surface condition as specified by the relavent product/apparatus manufacture. Works recommended for experienced or specialised contracting and labour parties.

ACID ETCHING OR ABRASIVE SHOT BLASTING: Acid etching is advised for more localised areas where Abrasive | Shot Blasting is advised for larger areas / entire surface sections. Acid etching requires procedures for handling, containment, and disposal of the hazardous materials to be put in place. It's not recommended for; horizontal surfaces, bitumen substrate surfaces or when corrosion of metal within the substrate is likely to occur (i.e. corrosion of rebars) etcetera.

ADVISED SURFACE PREPARATION PRODUCTS: The use of any Surface Preparation Product must be in accordance to the product's data sheet and/or manufacture's specification. Refer to product data sheet/s for detailed information, mixing ratios, directions of use etcetera.

PREREQUISITES FOR APPLICATION

Apply Road Marking as per the Advised Application & Directions of Use. Apply within the Maximum Window Period from the completion of preparation to avoid re-contamination of the surface. If re-contaminated, repeat required surface preparation works/methods ensuring a clean, sound surface that is free of all contaminants.

DO NOT Commence with application of Road Marking until all the below factors are in accordance. All factors, accounts and variables are to be adhered to prior to and during application of Road Marking.

PREREQUISITES FOR APPLICATION - MISCELLANEOUS:

ADDITIONAL PRODUCTS:	All previous products must be applied where/when required as per, Surface Preparation
DRYING CURING TIME:	All previous products & substrate applications repairs must be allowed to cure fully.

PREREQUISITES FOR APPLICATION - SURFACES

CONDITION STATE:	Contaminated, undesired profiles and/or conditions must be corrected. see Surface Preparation
PREPARATION:	All surface preparation works must be completed where required, see, Surface Preparation
TEMPERATURE:	The surface temperatures must be above 10°C or below 35°C
MOISTURE:	The surface substrate levels must be equal to or below 12%. Measured with a doser meter.

PREREQUISITES FOR APPLICATION - ENVIRONMENTAL

AMBIENT TEMP:	The ambient temperature must be above 10°C or below 35°C
RELATIVE HUMIDITY:	The relative humidity must be above 10% or below 80 %
WEATHER:	Do not apply if rain, high humidity, or extreme weather conditions are present or forecasted.
TIME OF DAY WINTER:	Application can only be carried out between hours of 9h00am – 16h00pm.
TIME OF DAY SUMMER:	Application can only be carried out between hours of 8h00am – 17h00pm.
VENTILATION:	Ensure good ventilation for application and use of product.

PREREQUISITES FOR APPLICATION - MAXIMUM WINDOW PERIOD

MAX WINDOW PERIOD:	Apply Road Marking within the suggested Max Period of Time as suggested below:
4 HOURS:	Apply within 4 hours for surfaces located in in-land areas or areas with similar enviro. conditions
2 HOURS:	Apply within in 2 hours for surfaces located in coastal or areas with similar enviro. conditions

PREREQUISITES FOR APPLICATION - ADDITIONAL INFORMATION

CURING TIME:	ALL previously used and or applied products must be allowed to dry and cure completely this includes substrate material applications and repairs. New plaster applications should be allowed to cure for minimum of 14 Days and concrete for minimum of 28 Days unless specified otherwise by manufacture of products. These periods must be adhered to before any preparation works or applications of Road Marking may be carried out.
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ADVISED APPLICATION & DIRECTIONS OF USE:

Ensuring all required Surface Preparation has been conducted and that the all Prerequisites for Application are in accordance, commence with application of the Road Marking. Applications are to be in accordance to the advised information and directions of use below.

MIXING:	Mix stir with use of a flat paddle or a paint mixer until homogeneous.
APPLICATION APPARATUS:	Apply with use of correct Brush, Roller, and/or Spraying apparatus.
BRUSH:	Go Paint, 'Smooth One Brush' or Go Paint, 'Wood One Brush'
ROLLER:	Go Paint, 'Green One Roller' or Go Paint, 'Smooth One Roller'
SPRAYING:	Airless Spraying Equipment / Road Lining Spray Machine
REQUIRED COATS:	One – ensure adequate film thickness.
THEORETICAL SPREAD RATE:	1.50 – 1.95 m ² per ℓ [dependant of the surface type and the porosity]
RECOM. FILM THICKNESS:	WFT: 510 - 550µm per coat DFT: 230 - 250 µm per coat
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PRACTICAL SPREAD RATE:	19.5 linear meters per ℓ for 100 mm stripe [1.95 m ² per ℓ] WFT: 510µm & DFT: 230µm
VENTILATION:	Ensure good ventilation during application and drying.
DRYING PROPERTIES:	No-Pick Up Time: 15 minutes maximum, when thinned: 30 minutes maximum.
GLASS REFLECTIVE BEADS:	Applied directly after application, while paint is wet.
SUBJECT TO TRAFFIC:	Allow to cure for a minimum of 2 hours before being subjected to traffic.
RECOATING TIME:	2 – 4 hours depending on drying conditions and film build. Only one coat is recommended.
THINNING:	Product is RFU. Only if required, thin by maximum of 5% with use of recommended thinner.
THINNER:	'Toluene' thinners
CLEANING:	Equipment and tools are readily cleaned while paint is wet with use of Toluene thinners. Cured dried paint can be removed and cleaned using Lacquer thinners, commercially available brush cleaners and/or Paint Stripper

ADDITIONAL INFORMATION

- Touch ups & applications to smaller, more localised areas may require thinning with recommended thinner by a maximum of 5%.
- The complete Road Marking system is a single coat application. Ensure adequate film build of at least 500µm (WFT) during application to achieve optimal product performance and quality.

PRODUCT LIMITATIONS - ENVIRONMENTS

The below environment classifications as classified by ISO: 12944: are not suitable or intended for use of Road Marking. Applications may result in a decrease in product performance, quality and/or adhesion.

- All 'IM' environmental classes: Any structure or surface that is immersed in water or buried in soil.

PRODUCT LIMITATIONS - FUNCTIONS

The below functions are not intended for the use of Road Marking. Applications may result in a decrease in product performance and quality.

- As a coating for and/or priming purposes.
- As decorative coating for residential and commercial use.
- As a system for a substrate or surface that is not categorised as flooring, paving and/or road type structure.

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PRODUCT LIMITATIONS - SURFACES | SUBSTRATES

The below surfaces and substrate types are not suitable or intended for direct application of Road Marking. Applications may result in a decrease in product performance, quality and/or adhesion.

- As a guideline, most substrate materials that would not traditionally be used for a floor, paving and/or road surfaces.
- Slate, Slasto, Travertine, Flagstone, Bluestone
- Metal & Steel substrates
- Timber, Vinyl, Tiling
- PVC, Glass

TOXICITY DATA & SAFETY INFO:

Keep paint away from children and animals. Harmful if swallowed, do not induce vomiting, consult your doctor. Ensure good ventilation during application, drying and storage.

HEALTH HAZARD RATING:

Group 2 – Moderate as stipulated by SAPMA

PREVENTION:

Never smoke, drink, or eat while painting. Wear the correct protective equipment as stipulated by SAPMA for products with Group 2 HHR. Obtain special instructions before use (Special protective actions for fire-fighters). Use Do not handle until all safety precautions have been met.

POISONS SCHEDULE:

POISON CENTER or doctor/physician.

LD 50 (ORAL-RAT):

8130 ATEdermal.

DERMAL LD50:

33333 ATEgas

SWALLOWED:

May cause lung damage if swallowed. Consult doctor if swallowed.

EYES:

Irritating - may cause damage if not given prompt attention. Consult doctor.

SKIN:

Highly irritating. Risk of dermatitis. May be absorbed through intact skin.

DISPOSAL:

Dispose of contents and container in accordance with local / regional / international regulations. Product is toxic to aquatic life.

SPILLS:

Prevent, by any means available, spillage from entering drains or water courses. Hose down to dilute and remove in no particular manner. Dispose of large quantities in accordance with all applicable environmental regulations.

STAINS:

Do not allow the product to dry on equipment. Equipment is readily cleaned using TOLUENE or lacquer thinners.

FOR MORE DETAILED INFORMATION REFER TO PRODUCTS MATERIAL SAFETY DATA SHEET



SAPMA-E



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DISCLAIMER ADVICE

All information contained in this document is given in good faith and is based on experience and field-testing. However, no guarantee is given or implied as conditions such as handling, and application are beyond the control of Fired Earth & Promac Paints. The information given in this Product Information Sheet is based on controlled laboratory tests and many years of experience. It is given in good faith, but no guarantee of any performance characteristic is given or implied. Fired Earth & Promac Paints cannot be held liable for consequential damage of whatsoever nature that may arise from the use of their products. Paint technology is continuously being developed; Fired Earth & Promac Paints reserves the right to update product specifications without prior notice. Contact Fired Earth for further details.

SUPPORTING PRODUCTS, DOCUMENTS & INFORMATION:

All additional information and documentation for Road Marking can be attained from the products webpage on the Fired Earth website.

www.fired-earth.co.za/roadmarkingpage

All additional suggested products information can be attained from relevant products manufactures/brands website.

FIRED EARTH:	www.fired-earth.co.za/
GOPAINT:	www.builders.co.za/search/?text=go+paint
HARRIS:	www.harrisafrica.com or international.harrisbrushes.com
PROMAC PAINTS:	www.promacpaints.co.za
RB10:	www.rb10.co.za

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