



VOGEL
S Y S T E M S

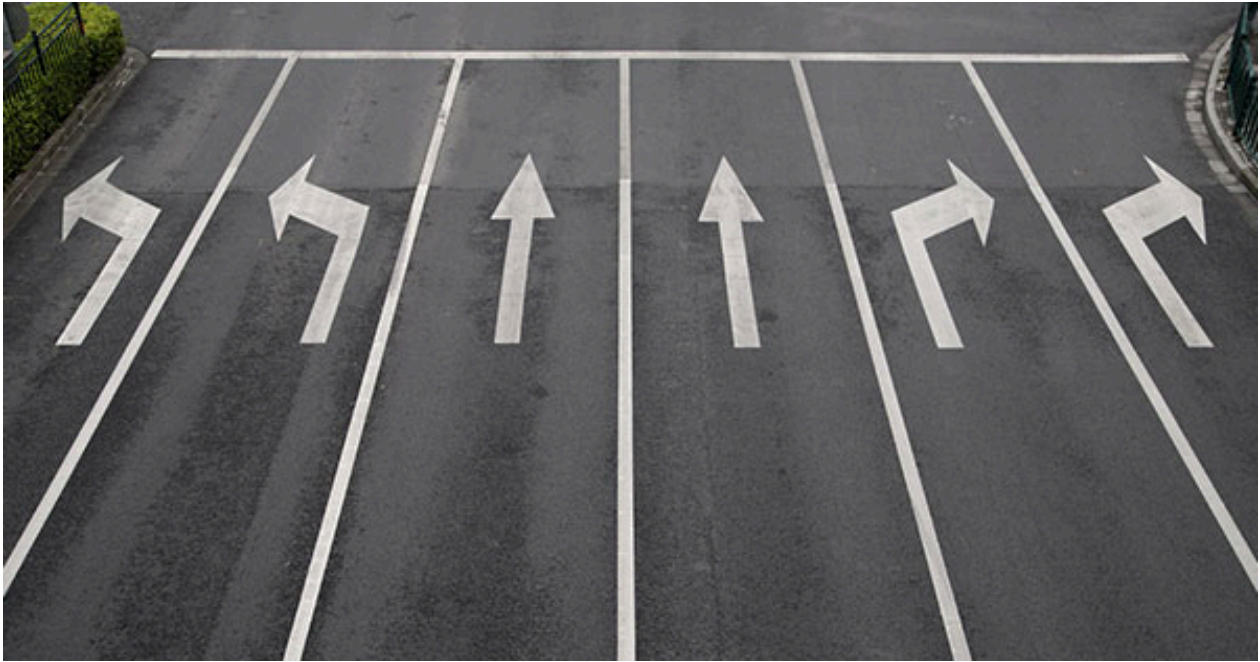
Method Statement
ROAD MARKING

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SCOPE

his procedure is applicable to the following works associated with the project. This method statement outlines the procedures to be followed in the construction of Road Marking.



Applied road marks.

PURPOSE

To ensure that all Road Marking are executed safely and in accordance with the contract requirements and that all quality assurance/ control activities are conducted in a systematic manner, works are inspected and conformance is verified and documented.

DEFINITIONS

- CM Construction Manager
- PE / SE Project Engineer / Site Engineer
- CS Chief Surveyor
- HSSE Health, Safety, Security, and Environmental
- T.S. Technical Specifications

REFERENCES

- Contract – General & Special Conditions – BOQ – Approved Drawings – Specifications – Shop drawings (Respectively).
- Egyptian Code

MATERIALS

- Painting material (VOGA THERMO – C)
- Glass Beads
- Warning tapes
- Temporary signs
- Safety Barriers
- Traffic Cones
- Grade Stakes
- Cleaning Cloths, Roller Brushes, Paint Brushes, Permanent Tapes, fine emery papers, etc.



VOGA THERMO-C

TOOLS & EQUIPMENT

- Paint Brushes/ Rollers



- Grinder



- Paint Sprayers



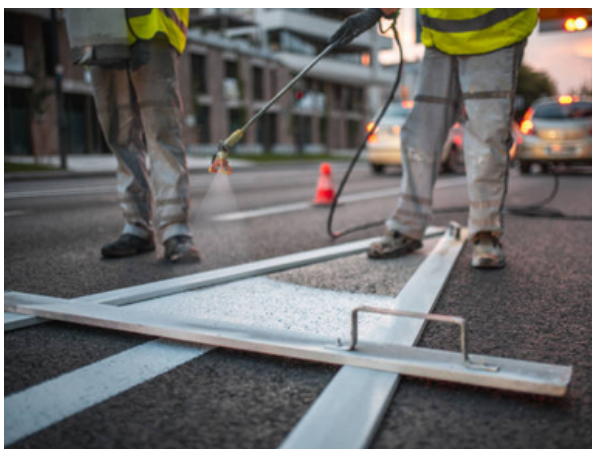
AS REQUIRED.

- Hand Tools



Trowel , Spatula or putty knife ,scraper ,hammer ..etc).

- Stencils Road Marking



PROCEDURE

Prior Activities

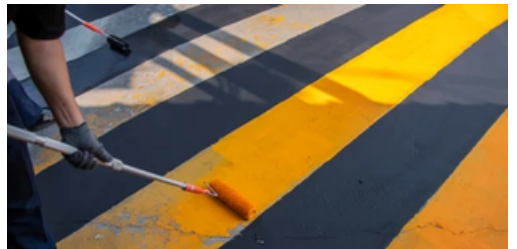
- The Surveyor will locate and mark all Centerlines for all types.
- Width and length for all types must be marked.

Road Marking

- Surfaces to be painted shall be prepared by removing, dust, dirt, grease, oil, and release agent and roughening the surface with fine emery paper to remove glaze.
- The Surveyor will locate and mark all main Outlines, Spots, and Coordinates for every type of marking and signs. These outlines will be clearly marked using chalk lines and tapes.
- Carefully mix and prepare paint materials in accordance with manufacture's direction.
- Use suitable thinner approved by Paint manufacture and only within recommended limits.
- Using Roller Brush, a single coating of color (as required) road marking paint is applied on the surface evenly.
- While painting adjacent areas and installations shall be protected by using masking tape or other approved precautionary measures.
- When the single coat of Paint is dried, another final coat is applied of Road Marking.
- Spread glass beads on the final coat of road marking before it gets dry" wet on wet application "
- Apply paint to an even and fine texture, leave no evidence of rolling such as laps, irregularity in texture, skid marks.



CLEAN THE SURFACE



USING ROLLER BRUSH FOR COAT



VOGA THERMO-C



Spread glass beads

CONSTRUCTION PROCEDURES

Personal safety requirements

- Follow the site's health, safety and environment policy at all times.
- Wear personal protective equipment at all times including hard hat, safety glasses, boots, gloves, air hood and masks as required.
- When using high-pressure plural component spray equipment, all personnel working in the application area must wear double-filter breathers with Occupational Safety and Health Administration (OSHA) ratings.
- When applying coatings in enclosed areas, all personnel working within the enclosed area must wear full-face masks with OSHA-rated supplied air respirators.

Priming the concrete

- Prime and seal the porosity of the substrate with solvent free epoxy primer or water- based epoxy primer with a coat of 0.2 to 0.3 kg/m³ depending on substrate porosity.
- Primer must be perfectly dry, between 24-48 hours depending on temperature conditions, before applying VOGA ALIPHATIC-E.

CONSTRUCTION PROCEDURES

Application

- VOGA ALIPHATIC-E is supplied ready to use by suitable spraying means.
- Apply two coats in prependicular direction with a recommended thickness of about 2.00 mm, 3.00mm per total application.
- It is recommended the first coat to be applied with the minimum possible consumption, to check and detect previously any problem. Once checked, apply the remainder coat with its usual consumption.
- For outdoor applications exposed to UV-rays, once VOGA ALIPHATIC-E has cured 24 hours, apply as UV-barrier topcoat one or two coats of aliphatic polyurethanes (UV COAT).
- **In cracks greater than 2mm** once opened up and clean, should be treated with a suitable epoxy putty (VOGAFLOOR ® range) and sprayed with aliphatic polyurea coat.
- **Expansion joints** once opened up and clean, should be treated and filled by (Backing-rod) and sprayed with aliphatic polyurea coat.
- **For slip resistance lagoon beaches** we can produce anti-slip polyurea layer by controlling the pressure of the gun during spraying.
- **Dealing with polylock** once cleaned by air compressor, will be sprayed with polyurea.

Coverage

- Estimated consumption for VOGA ALIPHATIC-E is 0.8-1.00 Kg/m² per coat with an average thickness of about 1mm per coat, a total consumption of 2.00 Kg/m² and 2mm thickness in two coats.
- To get 3mm thickness apply coats immediately before it gets dry" wet on wet application " in 1.0 Kg/m² per coat with an average thickness of about 0.8-1.00 mm per coat.

RESPONSIBILITIES

- The CM will coordinate with PE / SE and ensure that the necessary resources to implement the approved method statement.
- The PE / SE will ensure that the site preparation activities are conducted according to the approved method statement.
- Quality Control Engineer will ensure that the materials being used are in accordance to the project specifications, the approved method statement.
- The HSSE officer along with his team will ensure implementation of all HSSE procedures related to the nature of the works being carried out and in accordance with the HSSE Plan.
- The CS along with his team will ensure that all levels, coordinates and stations are accordance with the approved drawings.

RISKS

- Avoid any inhalation of vapours, avoid skin contact
Wear protective gloves and protective goggles In case of skin contact, rinse immediately with soap and water In case of eye contact, bathe eyes with water at once, then consult a doctor Observe the guidelines concerning the handling of epoxy resins and amines issued by the Employer's Liability Insurance Associations.
- As with all chemical products, care should be taken, during use and storage, to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product has fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Re-seal containers after use.

HEALTH AND SAFETY

- Approved safety plan procedures shall be strictly followed.
- Where possible hazards may arise from filling activities, the necessary safety measures will be taken to prevent accidents or injuries at all times. This may include barriers, warning tape/ net, signage, watchman, and proper lighting.
- Where work upon existing services may be required, the necessary work permits and safety equipment should be obtained prior to the activity commencement.
- HSSE officer will enforce that Personal Protective Equipment (such as Respiratory mask, Safety Shoes, Face mask, hard hats, etc.) be worn by site personnel at all times during construction activities.
- Prior to the commencement of any activities, the workforce will receive an induction talk on the project site safety requirements. This induction talk will include both activity safety issues, as well as general safety requirements.
- Safety engineer will ensure that Personal Protective Equipment is worn by site personnel at all times during construction activities.
- Plant and Equipment will be provided with back-up alarms, lights, and all other applicable safety devices.
- Proper access to the work area shall be maintained throughout the working period.

STORAGE

- Store in dry conditions in the original packs. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced. Materials should be protected from frost.
- Make sure all the pads have the same temperature during the entire installation period. Lay down the pads 24 hours before the installation to allow them to get their original dimensions. Install all the pads in a single laying session in order to guarantee installation under similar conditions

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