



**VOGEL**  
S Y S T E M S

**Method Statement**

# **POLYURETHANE BASED FLOORING**

Car parks (indoor & outdoor)

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## SCOPE

This Method Statement describes the procedure for the preparation of concrete substrates and the application of the VogaFloor Parking System in areas such as car parks, ramps, and driveways.

The system is a multi-layer flooring solution designed to provide durable, abrasion-resistant, and chemically resistant surfaces for both indoor and outdoor parking facilities.



Outdoor



Indoor

## PURPOSE

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The purpose of this method statement is intended to inform the consulting engineer how the work will be delivered on site associated with risks and precautions to be taken during working on site.

The purpose of this statement:

- To outline how the work will be achieved on site.
- To meet the drawings and specifications requirements.
- To predict possible problems.

## REFERENCES

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- Manufacturer's technical data sheets (Voga products).
- Project specifications and drawings.
- International standards for resin flooring (EN 13813 / ASTM).

## MATERIALS

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- **VogaFloor 120:** Epoxy primer for adhesion.
- **VogaFloor SL/PU:** Self-levelling binder layer.
- **VogaQuartz:** Quartz aggregate for slip resistance.
- **VogaFinish PU:** Polyurethane topcoat for interior decks.
- **VogaShield PU:** UV-resistant polyurethane topcoat for exterior decks.



## TOOLS & EQUIPMENT

- Shot blasting / diamond grinding machine.



- Industrial vacuum cleaner.



- Mixing drill with paddle.



- Notched trowel / squeegee.



- Spike roller.



- Rollers / spray equipment.



- PPE (gloves, goggles, respirators, safety boots)



# CONSTRUCTION PROCEDURES

## Indoor Floor Polyurethane works (Parking system)

1. Clean and prepare the concrete substrate by grinding or shot blasting to remove laitance, dust, grease, or contaminants.
2. Repair cracks, holes, and surface defects.
3. Check substrate moisture ( $< 4\%$ ) and ensure surface is dry and sound.
4. Mix and apply VogaFloor 120 primer by roller or squeegee. Allow curing for 12–24 hours.
5. Mix and apply VogaFloor SL/PU base coat at 1.5–2.0 mm thickness using notched trowel/squeegee. Use spike roller to remove entrapped air from the wet coating.
6. While the base coat is still wet, broadcast VogaQuartz to full saturation. Allow curing, then remove excess loose quartz by vacuum or sweeping.
7. Apply final topcoat VogaFinish PU by roller or spray to achieve a uniform finish. Allow curing: 24–48 hours before light traffic, 7 days for full service.

## Outdoor Floor Polyurethane works (Parking system)

1. Clean and prepare the concrete substrate by grinding or shot blasting to remove laitance, dust, grease, or contaminants.
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3. Check substrate moisture ( $< 4\%$ ) and ensure surface is dry and sound.
4. Mix and apply VogaFloor 120 primer by roller or squeegee. Allow curing for 12–24 hours.
5. Mix and apply VogaFloor SL/PU base coat at 1.5–2.0 mm thickness using notched trowel/squeegee. Use spike roller to remove entrapped air from the wet coating.
6. While the base coat is still wet, broadcast VogaQuartz to full saturation. Allow curing, then remove excess loose quartz by vacuum or sweeping.
7. Apply the final protective topcoat VogaShield PU by roller or spray for UV and weather resistance.
8. Allow curing: 24–48 hours before light traffic, 7 days for full mechanical and chemical resistance.



## 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

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- 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

## CONTACT INFORMATION

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 +201208160230

 [info@vogelsystems-eg.com](mailto:info@vogelsystems-eg.com)

 [vogelsystems-eg.com](http://vogelsystems-eg.com)