



METHOD STATEMENT

Sikalastic®-6100 FX

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TM WATERPROOFING / SIKA SERVICES AG

(TRANSLATION TEMPLATE)

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1 SCOPE

This method statement describes step by step the general procedure for application of cementitious waterproofing mortar **Sikalastic®-6100 FX**. It is intended to determinate the conditions under which the waterproofing works must be carried out using **Sikalastic®-6100 FX**.

This document serves as a generic application guide and must be completed with the rest of the documentation. Always check the Product Data Sheet for more specific and predominating information about the product. For the special case of bridge deck waterproofing, please refer to the specific Method Statement.

The installation information contained in this procedure is as specific as possible but cannot cover all variations in field conditions. If anticipated conditions do not allow these guidelines to be followed, please contact your Sika representative.

The application of this product must be carried out by qualified professionals to ensure its correct functioning.

2 PRODUCT DESCRIPTION

Sikalastic®-6100 FX is a sustainable waterproofing mortar based on a one component elastic, lightweight and low consumption, polymer-modified cementitious membrane. Can be used for water retention structures, basements and protection of exposed concrete surfaces.

Sikalastic®-6100 FX complies with the requirements of:

- EN-1504-2 as a protective coating for ingress protection, moisture control and increasing resistivity for concrete structures.
- EN 14891 as liquid applied water impermeable product for use beneath ceramic tiling.
- Drinking water, according to RD 3/2023 (EU 2020/2184) and WRAS.

2.1 CHARACTERISTICS / ADVANTAGES

- 1 component
- Elastic and flexible
- Lightweight
- Can be hand or machine applied.
- Excellent adhesion on sound substrates.
- Impermeable to water.
- Permeable to water vapour.
- High resistance to carbon dioxide diffusion.
- Sulphate resistance
- Non-corrosive, non-flammable, non-toxic
- Rapid curing
- Available in grey and white colour.
- Compatible with other Sika® systems, cement products and in general with most of the materials commonly used in construction.



2.2 LIMITATIONS

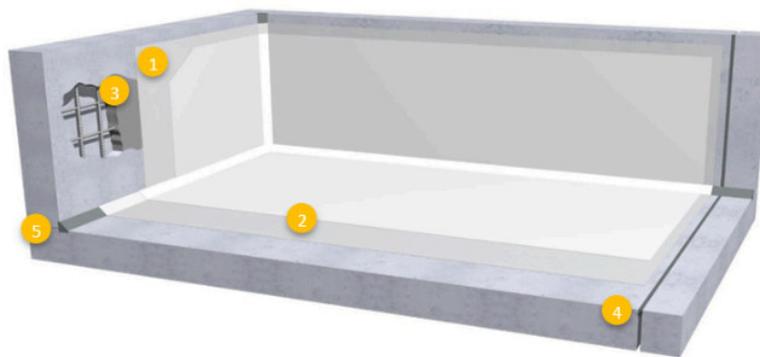
- Sikalastic®-6100 FX shall only be applied in accordance with its intended use.
- The most recent and relevant local Product Sheet (PDS) and Material Safety Data Sheet (MSDS) shall apply.

2.3 MATERIAL STORAGE



Materials shall be stored properly in undamaged original sealed packaging, in dry cooled conditions. Refer to specific information contained in the product data sheet regarding minimum and maximum storage temperatures. Check the shelf life of the product in the PDS. Protect the material from frost and strong exposure to the sun.

3 SYSTEM BUILD-UP



1. Bonding Slurry
2. Membrane
3. Concrete repair (if required)
4. Joint sealing
5. Covings

Product	Layer	Thickness approx.	Consumption approx.
Sikalastic®-6100 FX	Bonding slurry	0.5 mm	0.4 kg/m ²
	Membrane	1.5 mm	1.3 kg/m ²

4 ENVIRONMENT, HEALTH AND SAFETY

Health and safety instructions on the latest local Safety Data Sheet (SDS) must be strictly observed. Any specific local regulations and/or requirements must be fully complied with.

4.1 PERSONAL PROTECTION EQUIPMENT (PPE)

Handling or processing cement products may generate dust which can cause mechanical irritation to the eyes, skin, nose, and throat. Appropriate eye protection shall be worn at all times while handling and mixing products. Approved dust masks shall be worn to protect the nose and throat from dust. Safety

shoes, gloves and other appropriate skin protection shall be worn at all times. Always wash hands with suitable soap after handling products and before food consumption.

FOR DETAILED INFORMATION REFER TO THE CURRENT MATERIAL SAFETY DATA SHEET

4.2 FIRST AID



Seek immediate medical attention in the event of excessive inhalation, ingestion or eye contact causing irritation. Do not induce vomiting unless directed by medical personnel.

Flush eyes with plenty of clean water occasionally lifting upper and lower eyelids. Remove contact lenses immediately. Continue to rinse eye for 10 minutes and then seek medical attention.

Rinse contaminated skin with plenty of water. Remove contaminated clothing and continue to rinse for 10 minutes and seek medical attention.

FOR DETAILED INFORMATION REFER TO THE CURRENT MATERIAL SAFETY DATA SHEET

4.3 WASTE DISPOSAL



The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this products, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and/or local authority requirements. Do not empty surplus material into drains. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

FOR DETAILED INFORMATION REFER TO THE MATERIAL SAFETY DATA SHEET

5 SUBSTRATE PREPARATION

5.1 GENERAL

The performance of **Sikalastic®-6100 FX** is largely dependent upon a good bond to the concrete substrate. Lack of bond due to a weak or contaminated surface may cause premature failure. Therefore, the purpose of surface preparation is to obtain a substrate that is sound, clean, smooth, and free from voids or protrusions.

5.2 SURFACE PROFILE

In addition to ensuring that the substrate is sound, it is also crucial to prepare the substrate to achieve an even surface profile. Therefore, the surface preparation method must be selected wisely. International Concrete Repair Institute's (ICRI) Guideline No. 310.R2 2013 is recommended as a reference for concrete surface preparation. This guideline sets standard concrete surface profiles (CSP) and recommends the surface preparation methods for achieving the intended CSP.

To achieve good adhesion, while controlling membrane consumption and obtaining a sufficiently sound concrete surface, the minimum concrete surface profile is CSP 3.

Since **Sikalastic®-6100 FX** can be applied in a range of thicknesses, concrete surface profiles from CSP 4 to CSP 7 can be accommodated without any additional levelling measures prior to application of the first layer of membrane. However, the higher the CSP, the more consumption must be expected.

The following chart guides the surface preparation methods for different concrete surface profiles.

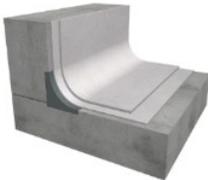
Substrate Preparation Method	CSP 1	CSP 2	CSP 3	CSP 4	CSP 5	CSP 6	CSP 7	CSP 8	CSP 9	CSP 10
Low pressure water cleaning										
Grinding										
Abrasive blasting										
Shotblasting										
High- and ultra-high pressure water jetting										

5.3 SUBSTRATE REPAIR



Spalled areas on walls and floors must be repaired, and other works must be completed using the appropriate EN 1504 R4-class concrete repair mortars in good time prior to the membrane application.

5.4 CORNERS



Inner corners and wall/floor connections are to be rounded off using suitable EN 1504 R4-class concrete repair mortar from SikaMonotop range before the application of **Sikalastic®-6100 FX**. Round out the sealing fillet with a minimum radius of 3 cm.

Alternatively, system-compatible sealing tapes can be used.

5.5 MOVEMENT JOINTS



Sikalastic®-6100 FX is not suitable for application over movement joints. Instead, these areas should be sealed using mastics or elastic tapes specifically designed to accommodate movement.

5.6 PRE-WETTING SUBSTRATE

The prepared substrate must be thoroughly pre-wet. It must be damp but not wet during the application of **Sikalastic®-6100 FX**. High suction substrates require more dampening than dense substrates. The surface must be allowed to dry to a matt damp state again before subsequent applications.



6 APPLICATION CONDITIONS

Working space shall be clean and tidy with no obstructions.

The substrate must be structurally sound, clean, free of grease, oil, dust, hollow or poorly adhered particles, cement laitance, etc.

Application of **Sikalastic®-6100 FX** may only be carried out in weather conditions that do not have a detrimental effect on the expected performance. These include direct sunlight, heated substrates, rain, strong wind, frosty weather, frozen substrates as well as air, substrate and component temperatures below +5 °C or above +35°C.

If necessary, appropriate protective measures must be taken before and during application to protect the product from damage. These measures are to be kept in place until sufficient resistance is achieved.

Application must not be carried out in the rain. **Sikalastic®-6100 FX** must also be protected from the risk of premature drying.

In the event of high ambient humidity in a closed environment (humidity above 80%), permanent ventilation must be provided during work. Do not use air dryers.

During the winter period, outdoor areas under construction are to be protected from exposure to sub-zero temperatures. In summer or when exposed to the wind, areas undergoing work are to be protected from drying out. Check the temperature with a surface thermometer and protect exposed areas if necessary.

Please refer to the checklists of control conditions and application included in the Annex of this document.

Calculate the required volume for the application and check the yield of the product. Make sure there is enough material on the jobsite to carry out the work. The number of bags required for the work shall be determined by the Contractor. It is the responsibility of the Contractor to have enough mortar on job site to complete the application, considering the application method and waste material.

The application company must provide sufficient staff in appropriate roles to ensure that the application progresses smoothly through the stages of the job: mixing, application and finishing the product.

Whatever the type of application chosen, the company must implement the necessary means of organisation or control to check that the product consumption has been respected (layout, thickness gauges, measuring devices, etc.).

7 ORGANIZATION OF THE JOBSITE

7.1 MATERIAL RECEPTION

Upon the arrival of materials on site, the following procedures must be carried out and documented:

- Count the received quantities.
- Confirm the accurate labelling and identification of all packages.
- Visually inspect the condition of packages and discard any showing damage or material loss.
- Verify the expiration date of the materials, which should be prominently displayed on each package.

7.2 CONTROL OF STOCKPILES

Ensure that the materials are stored in a cool, dry place, shielded from direct sunlight and heat sources, and keep them in their original sealed containers. When storing **Sikalastic®-6100 FX**, place it on wooden slats to prevent contact with the ground and protect it from rain and dew.

Do not remove the containers from their shipping crates until you are ready to use them. Organize the materials according to their identification for easy access.

At the end of the day, conduct a stockpile count to verify the materials consumed during the day.

8 MIXING

Mixing shall always be carried out in accordance with the recommendations contained in the latest product data sheet (PDS).

Pour the minimum amount of clean, uncontaminated water into a clean bucket. Add the **Sikalastic®-6100 FX** powder slowly and mix with a suitable paddle attached to a powerful, slow speed electric drill (max 400 rpm) until a smooth, lump free, thick consistency is achieved.

Recommended mixing water ratios:

	Mixing water (approx.)
Application of bonding slurry	6.2 - 6.4 litres / 15 kg bag
Application by brush	6.2 litres / 15 kg bag
Application by trowel	5.6 litres / 15 kg bag
Application by spray	5.6 litres / 15 kg bag

Allow the mix to stand for around 2 minutes so that full saturation of the polymer can take place. Re-mix briefly before use, until a lump-free consistency is achieved. Add water if necessary but never exceed the maximum water demand.

Do not mix more material than the quantity which can be used in 45 minutes. Avoid adjusting the mortar's consistency by adding additional water once it has begun to harden.

9 CONSUMPTION AND THICKNESS OF APPLICATION

Sikalastic®-6100 FX is applied normally in two crossed layers with a total minimum thickness of approx. 2 mm (for both layers combined). This corresponds to a minimum total consumption of approx. 1.8 kg/m² of powder. If necessary, the product can be applied in thicknesses of up to 5 mm, in a minimum of three coats.

The stated consumption values are theoretical and do not account for additional material that may be required due to factors such as surface porosity, surface profile, unevenness, material losses, or other site-specific conditions. It is recommended to apply the product to a test area in order to determine the exact consumption rate based on the actual substrate conditions and application equipment.

10 APPLICATION OF SIKALASTIC®-6100 FX

To ensure an intimate bond with the substrate, the first coat must be 'pushed' into the surface by spraying pressure or working it in with a stiff brush while still wet. Care must be taken not to spread the material too thinly. Be sure that corners and rounded edges are fully covered.

Allow to harden prior to the application of the second coat at least 2 hours. Can be up to 5 hours, depending on the humidity and ventilation conditions.

Damp the first coat and remove excess moisture. Second layer must be applied in the opposite direction of the previous coat.

Sikalastic®-6100 FX can be applied using a trowel, notched trowel, stiff bristle brush, or spray equipment. Roller application is possible, but not recommended.

10.1 TOOLS



Sikalastic®-6100 FX can be applied using a trowel, notched trowel, stiff bristle brush, or spray equipment. Roller application is possible, but not recommended.



In case of using a trowel, it is recommended to apply the first coat with a notched trowel pressing firmly into the surface. Second layer can be done with a flat trowel.



For spray application use a hopper gun spray equipment, textured sprayer, or a rotor/stator pump equipment. e.g. Putzmeister S5, Sprayboy P12, PFT Swing L, Swing M, M-Tec Speedy MP or others.

Using regular mortar pumps, **Sikalastic®-6100 FX** can be thin stream conveyed and sprayed in multiple layers up to a total thickness of maximum 5 mm.

As soon as the mortar layer starts to set, create a uniform surface with a fine sponge or a plastic trowel.



10.2 CURING

Under hot, windy or excessive drying conditions fog-spray after the initial set has taken place for as long as practicable. Alternatively, protect treated surfaces using polyethylene sheeting, wet burlap or wet hessian.

Do not use of film-forming curing agents on **Sikalastic®-6100 FX**, as they will inhibit adhesion of subsequent layers.

In cold, humid or unventilated areas it may be necessary to leave the application for a longer curing period or to introduce forced air movement. Never use dehumidifiers during curing periods.

10.3 CLEANING TOOLS / EQUIPMENT

Clean the tools and equipment immediately after use with water before the product hardens. Cured **Sikalastic®-6100 FX** membrane can only be removed mechanically.

10.4 HARDENING / COMMISSIONING

Sikalastic®-6100 FX can withstand mechanical stress and water pressure after 3 days, given a temperature range of $21^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and a relative humidity of $60\% \pm 10\%$. Faster curing may occur with elevated temperatures. Conversely, in colder, more humid, or poorly ventilated environments, the curing time may be extended.

Ensure that the waterproofing membrane is not damaged due to subsequent works at any time. Install a suitable temporary protection of the membrane if necessary.

11 TREATING CRACKED SUBSTRATES



Sikalastic®-6100 FX has high crack bridging capacities, both static and dynamic:

- Static: Class A4 acc. EN 1062-7: $\geq 1,25\text{mm}$
- Dynamic: Class B3.1 acc. EN 1062-7: 0,1-0,3mm; 1000 cycles; 0,03 Hz

- Cracks up to 0.3 mm:
 - Treat directly with **Sikalastic®-6100 FX** without reinforcement.

- Cracks between 0.3 mm and 1.25 mm:
 - Bridge with mesh embedded in an extra coat of **Sikalastic®-6100 FX** with an overlap of at least 5 cm on either side of the crack. Then apply two layers of **Sikalastic®-6100 FX** normally.
 - For structures with widespread passive cracking, it is possible to reinforce **Sikalastic®-6100 FX** by installing a mesh over the entire surface embedded in the first layer which will require an additional consumption.

- Cracks between 1.25 mm and 2 mm: Conduct a study of the stability of the structure before treating. If the study establishes that repair is possible, the cracks can be treated by patching with a suitable putty and bridging with mesh embedded in an extra coat of **Sikalastic®-6100 FX** with an overlap of at least 5 cm on either side of the crack. Then apply two layers of **Sikalastic®-6100 FX** normally.

12 SPECIAL CLEANING AND DISINFECTION PROCEDURES FOR TANKS AND VESSELS

In the case of tanks and vessels containing water, it is advisable to clean the tanks before the initial start-up of the facility and then at least every six months. Cleaning is also advised after shutdowns lasting more than 30 days, following repairs, when a general overhaul is deemed necessary, and as determined by the health authority.

12.1 EMPTYING AND CLEANING

Empty the tank and remove settled particles and incrustations from the surface using mechanical equipment such as pressure washers, dewatering pumps, and vacuums.

Subsequently, a meticulous visual inspection should be conducted to identify any damaged sections of the waterproofing, which should promptly be repaired, with specific areas treated as necessary.

12.2 DISINFECTION

Chlorination should be carried out using Sodium Hypochlorite (NaClO) at a concentration of 20-30 mg/l (ppm) of free residual chlorine, maintaining a pH level of 7-8. These disinfection conditions should be upheld for either a duration of 2 or 3 hours depending on the specific requirements.

If other biocides are to be used, it is essential to ensure that they do not damage the **Sikalastic®-6100 FX** surface.

12.3 WASHING

After disinfection, the interior of the tank or fountain vessel should undergo a thorough washing and rinsing process.

13 ANNEX: INSPECTION POINT PLAN

Inspection and Maintenance Program (I&M)	<name of the company>	Applied Products	Sikalastic-6100 FX
Jobsite	<name or description of job>		
Description of works	Finishing Job Inspection Sikalastic- 6100 FX		
Surface size (m2)			
Job finishing date			

		EVALUATION				Comments	Date	Signature
Acceptance criteria	Method / Equipment	Frequency of control	Yes	No				
Cleaning	Clean the whole surface with low pressure water	Visual	All applied surface					
Visual inspection	Document condition of finished membrane	Pictures	1 every individual element applied (wall, floor) or every 100m2			This document will be the basis for inspections after 1 year		
	Colour of the membrane	Visual	All applied surface					
Continuity of the membrane	Document installations done after the application	Visual	All applied surface			Repair the affected surface following the instructions of the Instructions for the "Use and maintenance of concrete surfaces treated with Sikalastic-6100 FX"		
	Continuity of membrane	Visual / Magnifying lens	All applied surface			Repair the affected surface following the instructions of the Instructions for the "Use and maintenance of concrete surfaces treated with Sikalastic-6100 FX"		
	Adhesion	Visual	1 every individual element applied (wall, floor) or every 100m			Repair the affected surface following the instructions of the Instructions for the "Use and maintenance of concrete surfaces treated with Sikalastic-6100 FX"		
Optional	Adhesion	Pull-off adhesion tester	At least 3 tests			Repair the affected surface following the instructions of the Instructions for the "Use and maintenance of concrete surfaces treated with Sikalastic-6100 FX"		
	Dry Thickness	Non destructive testing	At least 3 tests					

14 LEGAL NOTES

The information contained herein and any other advice are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. The information only applies to the application(s) and product(s) expressly referred to herein and is based on laboratory tests which do not replace practical tests. In case of changes in the parameters of the application, such as changes in substrates etc., or in case of a different application, consult Sika's Technical Service prior to using Sika products. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

15 KEY WORDS

Waterproofing, mortar, method, statement, EN1504, EN 14891, Sikalastic.

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Method Statement
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