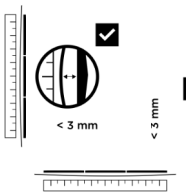
1 General Instructions

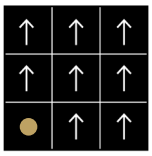
FLOAT 3D tiles can be installed by any professional tiling contractor or similar. Here is a quick general guide to ensure the best concrete results .

Check the load bearing capacity and the integrity of the substrate/slab. Make sure the wall/floor surface is structurally sound and has no loose or brittle areas. Also check for hollow patches and fill where necessary.

Tiling operations should be carried out in ambient temperature between 0 and 40 degrees celsius.

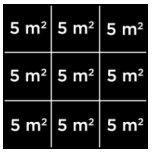


For best results the surface should be as straight as possible and not bow or concave more than 3mm per tile length, should the bow or concave be more it can be corrected with a filler to level the surface.

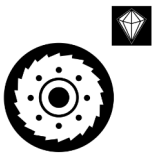


Walls: Always begin tiling from the bottom. Always prepare a level horizontal support on which the initial row of tiles can be placed during fixing. Once the glue has cured the support can be removed and the final row below can be installed. Allow 24 hours for full cure.

It is recommended that the wall is painted the same or similar colour as the tile. The wall should be waterproof if exposed to rain or moisture.



Larger areas should be installed in sections.
Optional: A laser-level will make install easier and more precise.



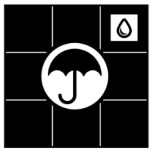
Cutting of the concrete tiles can be performed with a handheld angle grinder with a continuous diamond blade. We recommend a good quality diamond blade for a clean cut. Cheaper blades tend chip the edges during cutting. A concrete joint cutter can also be used for cutting the tiles. After cutting the raw concrete area should be sealed with our sealer supplied. Use a microfibre cloth for the best results.

Use clean gloves at all times to prevent tiles staining and damaging. Hands and tools must be kept clean when touching and working with the tiles. For the best end result take care of the product during installation.

Avoid leaving dirty spots on the tiles during installation. Wash immediately and thoroughly with water to remove any residue of adhesive or sealant before curing.

Avoid using any harsh chemicals or abrasive products as this could damage the sealers used on the tiles. For cleaning always use soft fabrics with water.

DO NOT use masking tape or similar on the tile faces.



Storage: Upon delivery of the concrete tiles make sure the tiles are stored under roof or covered adequately if stored exterior.

Layout planning

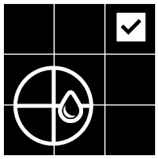
Planning the tile layout is important for the best visual result.
On large surfaces we recommend starting on the most visible side first, then continue tiling into the corners so cuts remain hidden. For smaller symmetrical walls/floors start from the centre and work outwards. Plan the layout according to where the cuts will be this will ensure less wastage and odd sized pieces.

Edge trims

When a wall ends and cut tiles with exposed concrete is visible it can be finished with a steel/aluminium angle or flatplate.
The thickness of angle will approx be the same thickness as tile.

The importance of proper product handling for the best end result.
Customer satisfaction is highly dependent on the installer taking care of the concrete during installation. When laying the tiles always protect the concrete surface from abrasion and scratching. Avoid sharp or hard objects making contact with the tile surface. Impact can leave a mark and damage the sealer.

To repair chips and scratches use FLOAT sealer supplied to touch up and instantly seal the surface of the tile. We recommend using styrene or foam to protect the tiles and corners from damage. DO NOT mark on the tile faces with pencil/pen.



Grouting is not needed for the 3D tiles.
Our tiles are sealed fully on all sides and are waterproof.

For everyday cleaning, use feather dusters or dry fabric.

2 Installation + Fixing

//Polymer glue application.

Follow the SIKAFLEX 118 Extreme grab adhesive installation instructions to ensure a strong and durable bond between the tiles and the substrate. These instructions provide guidance on how to prepare the substrate and more product information.

If in doubt or in need of advice please contact your glue supplier for the project.
Contact SIKA: +27 31 792 6500 or headoffice@za.sika.com
International: Contact your local Sika representative.

Should you use a different manufacturers glue make sure to follow their instructions and manufacterers guidelines carefully.

BUILDING TRUST

PRODUCT DATA SHEET

Sikaflex®-118 Extreme Grab

CONSTRUCTION ADHESIVE

DESCRIPTION

Sikaflex®-118 Extreme Grab is a 1- part construction adhesive with very high initial grab which bonds most construction material substrates. Internal and external use.
Suitable for use in hot and tropical climatic conditions.

USES

An adhesive to bond most construction components and materials such as:
- Concrete
- Masonry
- Most stones
- Ceramic
- Wood
- Metals
- Glass
- Mirrors

CHARACTERISTICS / ADVANTAGES

- Very high initial grab
- Fixing of heavy objects without temporary fixation
- Good workability
- Very low emissions
- Adhesive-sealant with CE marking

SUSTAINABILITY

- Conformity with LEED v4 EQc 2: Low-Emitting Materials
- VOC emission classification GEV-EMICODE EC 1 PLUS
- VOC emission classification of building materials RTS M1
- Class A+ according to French Regulation on VOC emissions

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 15651-1 - Sealants for non-structural use in joints in buildings - Facade elements: Class F EXT-INT CC 20HM

PRODUCT INFORMATION

Composition	Silane terminated polymer	
Packaging	290 ml cartridge, 12 cartridges per box	
Colour	White, concrete grey, black	
Shelf life	12 months from the date of production	
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.	
Density	~1,40 kg/l	(ISO 1183-1)

TECHNICAL INFORMATION

Shore A Hardness	~50 (after 28 d)	(ISO 868)
Tensile Strength	~2,2 N/mm²	(ISO 37)
Elongation at Break	~350 %	(ISO 37)
Tear Propagation Resistance	~10,0 N/mm	(ISO 34)
Service Temperature	–40 °C min. / +80 °C max.	

APPLICATION INFORMATION

	Yield **1 Cartridge (290 ml)**	**Dimension**
	12 spots Installs 2x large format tiles	Diameter = 35 mm Thickness = 15 mm

Sag Flow	0 mm (20 mm profile, 23 °C)	(ISO 7390)
Ambient Air Temperature	+5 °C min. / +40 °C max.	
Substrate Temperature	+5 °C min. / +40 °C max., min. 3 °C above dew point temperature	
Curing Rate	~3 mm/24 h (23 °C / 50 % r.h.)	Sika Corporate Quality Procedure (CQP 049-2)
Skinning time	~15 min (23 °C / 50 % r.h.)	(CQP 019-1)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, old sealants and poorly bonded paint coatings which could affect adhesion of the adhesive.
For optimum adhesion and critical, high performance applications the following priming and/or pre-treatment procedures shall be followed:
Non-porous substrates
Aluminium, anodised aluminium, stainless steel, galvanised steel, powder coated metals or glazed tiles, slightly roughen surface with a fine abrasive pad.
Clean and pre-treat using Sika® Aktivator-205 applied with a clean cloth.
Before bonding / sealing, allow a waiting time of > 15 minutes (< 6 hours).
Other metals, such as copper, brass and titanium-zinc, clean and pre-treat using Sika® Aktivator-205 applied with a clean cloth. After a waiting time of > 15 minutes (< 6 hours). Apply Sika® Primer-3 N applied by brush. Allow a further waiting time of > 30 minutes (< 8 hours) before bonding / sealing.
PVC has to be cleaned and pre-treated using Sika® Primer-215 applied with a brush. Allow a waiting time of > 15 minutes (< 8 hours) before bonding / sealing.
Porous substrates
Concrete, aerated concrete and cement based renders, mortars and bricks, prime surface using Sika® Primer-3 N applied by brush.
Before bonding / sealing, allow a waiting time of > 30 minutes (< 8 hours).
For more detailed advice and instructions contact Sika Technical Services.

Note: Primers are adhesion promoters and not an alternative to improve poor preparation / cleaning of joint surfaces. Primers also improve the long term adhesion performance of a sealed joint.

APPLICATION METHOD / TOOLS

Bonding Procedure
After the necessary substrate preparation, prepare the end of the cartridge before or after inserting into the sealant gun then fit the nozzle.
Apply in triangular beads, strips or spots at intervals of a few centimetres each. Use hand pressure only to fix the components to be bonded into position before skinning of the adhesive occurs. Incorrectly positioned components can easily be unbonded and repositioned during the first few minutes after application. If necessary, use temporary adhesive tapes, wedges, or supports to hold the assembled components together during the initial curing time.
Fresh, uncured adhesive remaining on the surface must be removed immediately. Final strength will be reached after complete curing of Sikaflex®-118 Extreme Grab, i.e. after 24 to 48 hours at +23 °C, depending on the environmental conditions and adhesive layer thickness.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Sika® Remover-208. Once cured, hardened material can only be removed mechanically. For cleaning skin use Sika® Cleaning Wipes-100.

FURTHER INFORMATION

- Pre-treatment Chart Sealing and Bonding

IMPORTANT CONSIDERATIONS

- For good workability, the adhesive temperature shall be +20 °C.
- Application during high temperature changes is not recommended (movements during the curing).
- Before bonding, check adhesion and resistance of paints and coatings by carrying out a trail.
- Sikaflex®-118 Extreme Grab can be overpainted with most conventional water-based coating and paint systems. However, paints must first be tested to ensure compatibility by carrying out preliminary trials. The best over-painting results are obtained when the adhesive is allowed to fully cure first. Note: non-flexible paint systems may impair the elasticity of the adhesive and lead to cracking of the paint film.
- Colour variations may occur due to exposure to chemicals, high temperatures and/or UV-radiation (especially with the colour shade white). However, a change in colour is purely of aesthetic nature and does not adversely influence the technical performance or durability of the product.
- Always use Sikaflex®-118 Extreme Grab in conjunction with mechanical fixings for overhead applications or heavy items.
- For very heavy components provide temporary support until Sikaflex®-118 Extreme Grab has fully cured.
- Full surface applications / fixings are not recommended since the inner part of the adhesive layer may never cure.
- Before using on natural stone, contact Sika Technical Service.
- Do not use on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might leach oils, plasticizers or solvents that could attack the adhesive.
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and certain plasticised synthetic materials. Preliminary trials shall be carried out or contact Sika Technical Services.
- Do not use for glass bonding if the bond line is exposed to sunlight.
- Do not use for structural bonding.
- Do not expose uncured Sikaflex®-118 Extreme Grab to alcohol containing products as this may interfere with the curing reaction.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, 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. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. 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.

FLOAT has no influence or knowledge over specific site conditions, therefore, the user must always carry out sufficient tests to satisfy themselves that the product is suitable for the intended purpose and fully understand the correct installation method.
FLOAT shall not be responsible for any installation, application and/or unintended utilization issues.

FLOAT
concrete