SIKAFLEX® CONSTRUCTION PURFORM®

Product
Sikaflex® Construction Purform® is a one-component, non-sagging, elastic polyurethane joint sealant. Thanks to its versatile application properties and high movement capacity, it durably seals movement and connection joints in concrete and masonry facades.

Application examples
The product is used for elastic sealing of joints and weatherproofing of movement and connection joints in facades.
Sikaflex® Construction Purform® is used in the following applications:

- Around window and door frames
- Around façade elements
- Around prefabricated elements
- EIFS facades

Sikaflex® Construction Purform® is used in interior and exterior applications.

Properties/advantages

- Easy to apply and work with
- High movement capacity: ±25% (ISO 9047), ±50% (ASTM C719)
- Low stress on the substrate due to the low modulus of the sealant
- Good resistance to weathering
- Good mechanical resistance
- Good adhesion to many building materials
- Monomeric diisocyanate content < 0.1%: no special training required for the user (REACH restriction 2023, Annex XVII entry 74)

Environmental information

- ✓ Contributes to compliance with Indoor Environmental Quality (EQ) Credit: Low-emitting materials under LEED® v4
- ✓ VOC emission classification GEV Emicode EC1plus

Approvals/Standards

- VOC content SCAQMD Rule 1168, Sikaflex®, Eurofins, Test report no. 392-2023-00524602_XG_EN
- VOC EMISSION M1, Sikaflex® xx, Eurofins, Test report No. 392-2022-00437201_I_EN
- Classification for seals DIN EN ISO 11600, Sikaflex®-708 Construction, SKZ, Test report no. 225964/22-III

Value basis
All technical data stated in this technical data sheet are based on laboratory tests. Actual measured data may differ due to circumstances beyond our control.

Ecology, health and safety
For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the most recent safety data sheet for physical, ecological, toxicological and other safety-related data.

Application instructions
Substrate preparation
Poor adhesion due to inadequate surface preparation
Primers are adhesion promoters.
Do not use primers on poorly prepared substrates or poorly cleaned surfaces.

IMPORTANT
Poor adhesion due to incorrect primer procedure
Incorrectly defined or uncontrolled primer procedures can lead to differences in product performance.
Test the adhesion on project-specific substrates and agree with all parties on the procedures to be followed before starting a project. For more information, please contact our technical department.

The substrate must be sound, clean, dry and free
of contaminants such as dirt, oil, grease, cement residue, sealant residues and poorly adhering coatings that could interfere with the adhesion of the primer and sealant products.

The substrate must be strong enough to withstand the stress of the sealant during movement.
Use techniques such as steel wire brushing, grinding, grit blasting or other suitable mechanical methods to remove weak substrate material.
Repair all damaged joint edges with suitable Sika repair products.

Remove dust, loose and brittle material from all surfaces before applying a sealant.
If tested or supported by experience, the
product can be applied to many substrates without primers or activators.

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Use the following primer or pre-treatment procedures to achieve optimal adhesion and durable joints, or high-performance applications such as joints in multi-storey buildings, high-stress joints, or joints exposed to extreme weathering.

NON-POROUS SURFACES
Aluminium, anodised aluminium, stainless steel, galvanised steel or glass tiles
Lightly sand the surface with an abrasive pad.
Clean the surface.
Pre-treat the surface with Sika® Aktivator-205 using a clean cloth.

Other metals such as copper, brass and titanium-zinc can be lightly sanded with a fine sanding pad
Clean the surface.
Pre-treat the surface with Sika® Aktivator-205 using a clean cloth.
Wait until the evaporation time has passed.
Treat the surface with Sika® Primer-3N using a brush.

Powder-coated metals
Carry out adhesion tests in advance to check adhesion. For more information, please contact Sika's technical department.

PVC substrates
Treat the surface with Sika® Primer-215 using a brush.

POROUS SUBSTRATES
Concrete, aerated concrete and cement-based plasters, mortars and bricks.
Treat the surfaces with Sika® Primer-3 using a brush.

APPLICATION

IMPORTANT
Follow the installation procedures strictly
Strictly follow the installation procedures as defined in the work descriptions, application manuals and work instructions, which must always be adapted to the actual conditions at the workplace.

IMPORTANT
Stains on natural stone surfaces due to plasticiser migration
Stains caused by plasticiser migration may occur on cast, reconstituted or natural stone surfaces such as granite, marble or limestone.

Do not use the product on natural stone surfaces.

IMPORTANT
Degradation of sealant due to surfaces that leak oil, plasticisers or solvents.

Bitumen, natural rubber or EPDM rubber can leak oil, plasticisers or solvents that can damage the sealant and cause the product to become sticky.
Do not use the product on materials that leak oil, plasticisers or solvents.

IMPORTANT
Damage to the sealant due to chemical attack
Do not use the product to seal joints around swimming pools that contain water treatment products such as chlorine.

IMPORTANT
Insufficient curing due to exposure to alcohol

Exposure to alcohol during curing can interfere with the curing process and cause the product to become sticky.

Do not expose the product to alcohol-containing products during the curing period.

IMPORTANT
Poor performance caused by lack of humidity
Humidity is required for the curing process of the product.
Ensure that there is sufficient humidity for the material to cure and perform properly.

Delayed skin formation and curing time due to changing environmental conditions
Note: Changing environmental conditions can affect the performance of the product.
Skin formation and curing time can be significantly delayed by low humidity, low temperature and wide joint dimensions.
Apply masking tape where clean or precise joint lines are required.
After the required substrate preparation,
insert a backing at the required depth.
Treat the joint surfaces as recommended in the substrate preparation. Note: Avoid applying too much primer.
Open the top of the tube or open the end of the sausage packaging.
Attach the nozzle and cut it to the desired
bead width.

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Insert the nozzle into the application gun.
Extrude the product into the joint. Note: avoid air entrapment. Ensure that the product is in full contact with the bonding zone of the joint.

IMPORTANT: Do not use levelling agents that contain solvents . Press the product firmly against the joint sides immediately after application to achieve good adhesion and a smooth finish. Use a suitable smoothing agent such as Sika® Tooling Agent N to smooth the surface of the joint.
Remove the masking tape within the skin formation time of the product.

PAINTING OVER THE SEALANT IMPORTANT
Sticky paint due to plasticiser migration
Paints and sealants or adhesives may contain plasticisers and other products that migrate and cause painted surfaces to become sticky.

IMPORTANT
Cracking paint due to joint movement
Rigid paint applied to a sealant or flexible adhesive can crack when used on joints that move.
The product can be overcoated with most conventional paint systems.
Allow the product to cure completely before repainting.
Before repainting, initial tests can be carried out
to test the compatibility of the paint or coating system with the product in accordance with ISO/TR 20436:2017 - Construction and civil engineering works - Sealants - Paintability and paint compatibility of sealants.

Colour deviation
Note: Colour deviation may occur, particularly with white and other light colours. This effect is purely aesthetic and does not affect the technical performance or durability of the product.

CLEANING TOOLS
Clean all tools and application equipment immediately after use with Sika® Remover-208 or Sika® Cleaning Wipes-100. Once cured, the material can only be removed mechanically.

LOCAL RESTRICTIONS
Please note that due to specific local regulations, the performance of this product may vary from country to country. Consult the local technical data sheet for the exact description and application possibilities.

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PURFORM®

PRODUCT INFORMATION

Product Declaration	EN 15651-1:2012	F EXT-INT CC 25 LM
	ISO 11600:2002	Class F 25 LM
	ASTM C 920-18	Movement Class 50
Chemical Base	Sika® Purform® polyurethane	
Packaging	600 ml foil pack	20 foil packs per box
	Refer to the current price list for available packaging variations.	
Shelf Life	15 months from 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 +30 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Colour	Available in a range of colours, refer to the price list for further information.	
Density	(1.45 ± 0.1) kg/l	(ISO 1183-1)

TECHNICAL INFORMATION

Shore A Hardness	Cured 28 days at +23 °C and 50 % R.H.	> 20	(EN ISO 868)
Tensile Strength	Cured 28 days at +23 °C and 50 % R.H.	0.96 MPa	(ISO 37)
Secant Tensile Modulus	Cured 28 days at +23 °C and 50% R.H. Measured at 100% elongation at +23 °C.	0.30 N/mm²	(ISO 8339)
	Cured 28 days at +23 °C and 50% R.H. Measured at 100% elongation at -20 °C.	0.60 N/mm²	
Movement Capability	± 25 %		(EN ISO 9047)
	± 50 %		(ASTM C719)
Elastic Recovery	Cured 28 days at +23 °C and 50 % R.H.	90 %	(EN ISO 7389)
Tear Propagation Resistance	Cured 28 days at +23 °C and 50 % R.H.	6.0 N/mm	(ISO 34-2)
Service Temperature	Maximum	+70 °C	
	Minimum	-40 °C	
Resistance to Weathering	10		(ISO 19862)

Joint Design	For movement joints, the width must be at least 8 mm and should not exceed 40 mm. For non-movement joints such as connection joints in interior areas, the joint width can be less than 8 mm. The joint dimensions must be designed to suit the movement capability of the sealant. In all cases joints must be at least 8 mm deep or a have a width to depth ratio of 2 : 1 whichever is greater. For more information about joint design and calculations refer to the Sika document Design guideline: Dimensioning of construction joints or contact Sika Technical Services.

APPLICATION INFORMATION

Sag Flow	20 mm profile tested at +50 °C.	0 mm	(EN ISO 7390)
Product Temperature	Maximum	+40 °C	
	Minimum	+5 °C	
Ambient Air Temperature	Maximum	+30 °C	
	Minimum	+5 °C	
Substrate Temperature	Maximum	+40 °C	
	Minimum	+5 °C	
	Beware of condensation. Substrate temperature during application must be at least +3 °C above dew point.		
Backing Material	Use closed cell, polyethylene foam backing rod.		
Curing Rate	At +23 °C and 50 % R.H.	3 mm / 24 h	(CQP049-2)
Skin Time	At +23 °C and 50 % R.H.	60 minutes	(CQP019-1)
Tooling Time	At +23 °C and 50 % R.H.	40 minutes	(CQP019-2)