Declaration of Performance

Sealing & Bonding
Declaration of Performance
Edition 04.2013
Identification no.020505011500000002

Version no. 1

CE ETA 09 0272 13 1213

DECLARATION OF PERFORMANCE
Sikaflex® Tank N
In combination with SikaPrimer-215

02	05	05	05	011	50000000	2	1009

1. Product Type: Unique identification code of the product-type:	**ETA 09 0272**
2. Type batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):	**See packaging of the product**
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:	**The joint sealing system is intended for use in facilities for storage , handling and filling of liquid chemicals (substances hazardous to water) both inside as well as outside of buildings.**
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):	**Sikaflex Tank N** **Sika Deutschland GmbH** **Kornwestheimer Strasse 107** **D-70439 Stuttgart**
5. Contact Address: Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):	**Not relevant**
6. AVCP: System or systems of assessment and verification of constancy of performance (AVCP) of the construction product as set out in CPR, Annex V:	**System 2+**
7. Notified body (hEN): In case of the declaration of performance (DoP) concerning a construction product covered by a harmonised standard:	**Not relevant**
8. Notified body (ETA): In case of the declaration of performance concerning a construction product for which a European Technical Assessment (ETA) has been issued**:**	**The notified body SKZ Tecona GmbH, identification number 1213,**

For Further Information:
Sika Services AG
TM Sealing & Bonding
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9. Declared performance

Group no.*	Liquids
DF 1 + 1 a	Petrol (Gasoline) for motor vehicles to DIN 51600 and DIN EN 228
DF 2	Aviation fuels
DF 3+ 3a+3b	Extra-light heating oil (DIN 51603-1), diesel fuel (DIN EN 590), unused internal combustion engine oils and unused vehicle gear oils, mixtures of saturated and aromatic hydrocarbons with an aromatic content < 20% by weight and a flash point > 55°C.
DF 4	All hydrocarbons
DF 4a	Benzene and benzene-containing mixtures
DF 4b	Crude oils
DF 4c	Used internal combustion engine oils and used vehicle gear oils with a flash point > 55°C.
DF 5	Monohydric and polyhydric alcohols (up to max. 48% by volume methanol) glycol ethers
DF 5a	All alcohols and glycol ethers
DF 5b	Monohydric and polyhydric alcohols > C2.
DF 11	Inorganic alkalis and alkaline-hydrolysing inorganic salts in aqueous solutions (pH > 8), excluding ammonia solutions and oxidising salt solutions (i. e. hypochlorite).

Characteristics, levels, classes and characteristic values

Characteristics / level / classes	unit	Characteristic values for the joint sealing system facing
Airing out (at 23°C) of the primer minimum	[minutes]	Min.:30, Max.: 480 (8 h)
Max. storage time [1] (at 0 - 40 °C) sealing compound: primer:	[months]	12
Mixing ratio sealing compound: primer:	[parts by weight]	one-component
Working life (Pot-life)	[minutes]	60
Minimum cure time until the complete chemical and mechanical design resistance is	[days]	14 (depending on weather)
Waiting time until traffic ability is achieved	[days]	14 (depending on weather and joint width)
Colorshade sealing compound:	[-]	concrete-grey, black
primer:		colourless
Backfill material	[-]	according to ETA and to the additional provisions by the manufacturer
Surface temperature of the pavement sealing system in areas of joints during installation	[°C] [K]	≥5°C und ≤ 40°C, ≥3 K above temperature of dew point
Reaction to fire class "E", classification according to EN 13501-1		
Level of trafficability "t0": suited for traffic with pedestrians only and "t1": suited for traffic with pneumatic tires only		
Class of wear and tear "XM1": permissible stress by vehicles with pneumatic tyres		

[1] in original container / pack
Admissible contact materials in an ….container/push

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contact materials	comments
Concrete [1]: - pre- fabricated elements	Contact materials: -according to the statutory provisions implementing directives of the European Community, which include the specific requirements of the building authority as well as the law relating to water and which bear the marking of the European Community (CE marking) and/or - according to the intended national provisions of the respective countries
Concrete [2]: - situ concrete	Concrete: - according to Annex 4, Table 2 and - according to the intended national provisions of the respective countries respective countries

[1]: e.g.: vehicle pre-fabricated load-bearing elements made of liquid tight concrete granted and marked in accordance with an national and/or European technical approval for the use in facilities for the storage, handling and filling of substances hazardous to water

[2]: e.g.: liquid tight in-situ concrete slab, granted and marked in accordance with an *allgemeine bauaufsichtliche Zulassung* ('national technical approval') (G) for the use in facilities for the storage handling and filling of substances hazardous to water

Admissible deformation distances [1] for planning and design

Characteristic values/Notes	Admissible deformations as a result of extension, compression and shear stress
horizontal:[2]	
Extension and compressive strain and the sum resulting from extension, compressive strain in the area of parallel joint side walls and in the area of Tee and/or cruciform joints	10 mm joint width: 2.5 mm 20 mm joint width: 4.0 mm
vertical:[2]	
Shear in the area of parallel joint side walls and in the area of Tee and cruciform joints	10 mm joint width: 2.5 mm 20 mm joint width: 4.0 mm
resulting:[1], [2]	
Combination of horizontal and vertical deformation in the area of parallel joint side walls and in the area of Tee and cruciform joints	10 mm joint width: 2.5 mm 20 mm joint width: 4.0 mm
The effect of the movement behaviour of the adjacent sealing construction (e.g. as a result of temperature, residual shrinkage or creep (concrete) on the join width is to be taken into account.	

The joint sealing system used in facilities for the storage, handling and filling of substances hazardous to water is impermeable and chemically resistant to the following liquids (stress level: S_1, H_1, and $_1$ "low" and S_2, H_2 and F_2 "medium", see also Annex 7 of ETA -09/0272).

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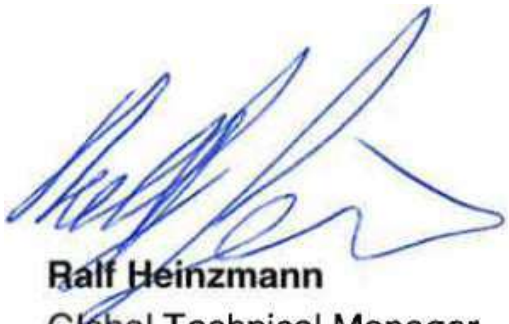
10. Declaration

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.This declaration of performance (DoP) is issued under the sole responsibility of the manufacturer identified in point 4.

Signed on Behalf of Manufacturer by:



Ralf Heinzmann
Global Technical Manager
Sika Services AG
TM Sealing & Bonding

Christian Völlm
Corporate Product Engineer
Sika Services AG
TM Sealing & Bonding

Zürich, 21.05.2013

Ecology, Health and Safety Information (REACH)

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.

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CE

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ETA 09/272

The joint sealing system is intended for use in facilities for storage , handling and filling of liquid chemicals (substances hazardous to water) both inside as well as outside of buildings

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Reaction to fire	E (EN ISO 13238, Classification acc. EN 13501-1: 2010)
Admissible contact materials	Concrete
admissible extension, compression and shear distances in millimetres	“t0”: suited for traffic with pedestrians only and “t1”: suited for traffic with pneumatic tires only
Admissible levels of road serviceability	**“XM1”:** permissible stress by vehicles with pneumatic tyres
Resistance to media	Resistance to media in accordance with Annex 2 of ETA 09 0272

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