

BUILDING TRUST

PRODUCT DATA SHEET

Sikaflex[®] CR 170

(formerly MSeal CR 170)

Two-part, non-sag, chemical-resistant, polysulphide-based joint sealant

DESCRIPTION

Sikaflex[®] CR 170 is a two-part, non-sag, chemical-resistant, polysulphide-based joint sealant with German technical approval (AbZ). It is used in facilities for the storage, handling and filling of substances hazardous to water.

USES

Sikaflex[®] CR 170 is used for sealing wall joints and inclined floor joints between foot access and traffic areas, especially where an effective seal against potentially water-polluting substances is needed, for example in refueling areas at filling stations and for other sealed areas.

FEATURES

- Very good movement capability: ±30 % (ISO 9047)
- Approved for use in storage, handling, and filling facilities for substances hazardous to water by DIBt (Deutsches Institut für Bautechnik)
- Very good resistance to hydrocarbons like fuels, oils and many other chemicals

CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 14188-2:2004 Joint fillers and sealants — Part 2: Specifications for cold applied sealants
- Joint sealing system, Sikaflex[®] CR 170, DIBt, Approval No. Z-74.6-166

Composition	Polysulfide
Packaging	450 mL cartridge, 2.5 L cans
Shelf life	9 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 +25 °C. Al- ways refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.
Density	1.65 kg/L

PRODUCT INFORMATION

TECHNICAL INFORMATION

Shore A hardness	Cured 28 days at +23 °C and 50 % R.H.	~25	(EN ISO 868)
Secant tensile modulus	Cured 28 days at +23 °C and 50% R.H. Measured 100% elongation at +23 °		(ISO 8339
	Cured 28 days at +23 °C and 50% R.H. Measured 100% elongation at -20 °	0.7 N/mm ² at	
Shrinkage	Loss of volume	< 5 %	(EN ISO 10563
Chemical resistance	Approved liquids ac- cording to DIBt approv- al	Stress level	Trafficable
	Gasoline for spark igni- tion engines according to EN 228, with a max- imum 5 % by volume of bio-alcohol according to EN 15376	SFH 2	x
	Gasoline for spark igni- tion engines according to EN 228, with a max- imum 20 % by volume of bio-alcohol according to Directive 2009/28/EC	SFH 2	x
	Aviation gasoline	SFH 2	X
	Fuel EL, unused com- bustion engine oil, un- used motor vehicle gear oil, mixture of saturated and aromatic hydrocar- bons with an aromatic content < 20 wt% and a flash point > 60 °C	SFH 2	X
	Diesel fuel according to EN 590, with a maxim- um of 20 % by volume of bio-diesel fuel ac- cording to EN 14214	SFH 2	x
	All hydrocarbons as well as mixtures containing benzene with max. 5 % by volume except fuels (including Gr. 2, 3, 4b and 4c, excluding Gr. 1, 1a, 3b and 4a)	SFH 1	walkable only
	Benzene and mixtures containing benzene	SFH 1	walkable only
	Crude oils Used internal combus- tion engine oils and used vehicle gear oils with a point of ignition of > 55 °C	SFH 2 SFH 2	<u> </u>
	Monovalent and poly- valent alcohol (up to a	SFH 2	X



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maximum of 48 % by		
volume of methanol		
and ethanol), glycols,		
polyglycols and their		
monoethers as well as		
their aqueous mixtures		
All alcohols and glycol	SFH 2	x
ethers as well as their		
aqueous mixtures		
Monovalent and poly-	SFH 2	X
valent alcohol ≥ C2 (up		
to a maximum of 48 %		
by volume of ethanol)		
as well as their aqueous		
mixtures		
Ethanol including eth-	SFH 2	X
anol according to DIN	51112	X
EN 15376 (independent		
of its manufacturing process) as well as its		
• •		
aqueous mixtures	<u></u>	<u> </u>
Bio diesel fuel according	SFH 2	Х
to EN 14214		
Aqueous solutions of	SFH 2	Х
aliphatic aldehyde up to		
40 %		
Aqueous solutions of	SFH 2	Х
organic acids (carboxyl-		
ic) up to 10 % as well as		
their salts in aqueous		
solutions		
Inorganic acids (mineral	SFH 1	walkable only
	SFH 1	walkable only
Inorganic acids (mineral	SFH 1	walkable only
Inorganic acids (mineral acids) up to 20 % as well as acidic, hydro- lysed inorganic salts in	SFH 1	walkable only
Inorganic acids (mineral acids) up to 20 % as well as acidic, hydro-	SFH 1	walkable only
Inorganic acids (mineral acids) up to 20 % as well as acidic, hydro- lysed inorganic salts in	SFH 1	walkable only
Inorganic acids (mineral acids) up to 20 % as well as acidic, hydro- lysed inorganic salts in aqueous solution	SFH 1	walkable only
Inorganic acids (mineral acids) up to 20 % as well as acidic, hydro- lysed inorganic salts in aqueous solution (pH < 6), except for hy-	SFH 1	walkable only
Inorganic acids (mineral acids) up to 20 % as well as acidic, hydro- lysed inorganic salts in aqueous solution (pH < 6), except for hy- drofluoric acids and acids with an oxidizing	SFH 1	walkable only
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Inorganic acids (mineral acids) up to 20 % as well as acidic, hydro- lysed inorganic salts in aqueous solution (pH < 6), except for hy- drofluoric acids and acids with an oxidizing effect and their salts Inorganic lye as well as alkaline hydrolysing in- organic salts in aqueous solution (pH > 8), ex- cept ammonia solution and oxidising salt solu- tions (e.g. hypochlorite) Aqueous solutions of in- organic non-oxidizing salts with a pH value between 6 and 8 Amines as well as their salts (in aqueous solu- tions) Single liquid: Skydrol® LD 4 Single liquid: Shell Di- ala®	SFH 2 SFH 2 SFH 2 SFH 2 SFH 2 SFH 2	x x x x x x x x x x



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	35 %)		
	Legend (S): storage (1): stress level low	(H): handling (2): stress level medium	(F): filling (3): stress level high
		ation about chemical resista cal resistance chart Sikaflex [®]	,
Service temperature	Maximum	+60 °C	
	Minimum	-20 °C	

APPLICATION INFORMATION

Mixing ratio	Part A : Part B		100 : 9 by weight	
Consumption	Joint width	Joint depth	Consumption	
	10 mm	10 mm	100 ml/m	
	15 mm	12–15 mm	180–225 ml/m	
	20 mm	16–20 mm	320–400 ml/m	
	25 mm	20–25 mm	500–625 ml/m	
	30 mm	24–30 mm	720–900 ml/m	
	35 mm	28–35 mm	980–1225 ml/m	
	40 mm	32–40 mm	1280–1600 ml/m	
Backing material	Use closed cell, polyethylene foam backing rod.			
Material temperature	Maximum		+40 °C	
	Minimum		+5 °C	
Ambient air temperature	Maximum		+40 °C	
	Minimum		+5 °C	
Substrate temperature	Maximum	+40 °(C	
	Minimum		+5 °C	

BASIS OF PRODUCT DATA

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

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrate must be sound, clean and free of all contaminants such as dirt, oil, grease, polish, coatings, watersoluble and water-resistant adhesives, varnish, laitance, surface treatments and loose friable materials.

SUBSTRATE PREPARATION

PRODUCT DATA SHEET Sikaflex® CR 170 November 2024, Version 03.01 02051500000002005 The Product must always be applied to primed surfaces.

- Sika[®] Primer-117 MS: for porous substrates such as concrete and cementitious mortars
- Sika[®] Primer-107: for non-porous substrates and stainless steel
- Sika[®] Primer-127: for mild steel substrates For further information, refer to the corresponding technical data sheet.

Note: Primers only help to improve the adhesion. They are not a substitute for correct substrate preparation nor do they improve the strength of the substrate significantly.

- 1. Allow primer to flash off before sealant application.
- 2. Apply the Product within the open time of the primer. Note Do not prime or puncture the backer-rod.



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MIXING

- 1. Place the cartridge in the holder and clamp it firmly in position.
- 2. The bottom of the cartridge must be firmly seated on the bottom of the holder.
- 3. Insert the stirrer into the cartridge while rotating it.
- 4. Mix the two parts during at least 2 minutes.
- 5. A homogeneous substance without any sludge is produced.
- 6. Rotate the stirrer to remove it from the cartridge.
- 7. Close the gun. Make sure that the front edge of the cartridge forms a tight seal against the gun nozzle.

APPLICATION

IMPORTANT

Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

- 1. Apply masking tape where neat or exact joint lines are required.
- 2. After the required substrate preparation, insert a backing rod to the required depth.
- 3. Prime the joint surfaces as recommended in substrate preparation. Note Avoid excessive application of the primer.
- 4. Following mixing, fill the material into a manual spray gun or insert the container into a pressure unit with hose and nozzle.
- 5. Apply the Product into the joint. Note Avoid air entrapment. Make sure that the Product comes into full contact with the adhesion area of the joint.
- 6. IMPORTANT Do not use tooling products containing solvents. As soon as possible after application, tool the Product firmly against the joint sides to ensure adequate adhesion and a smooth finish. Use a compatible tooling agent such as Sika® Tooling Agent N to smooth the joint surface.
- 7. Remove the masking tape within the skin formation time of the Product.

Colour variation

Note: Colour variation may occur especially with white or other light colour shades. This effect is purely aesthetic and does not adversely influence the technical performance or durability of the Product.

Ambient temperature

Note: In colder temperatures, reactions happen slower, leading to longer open and curing times.

In warmer temperatures, reactions occur faster, resulting in shorter open and curing times.

To guarantee complete curing, maintain material and structure temperatures above the minimum limit at any location and any point during the curing process.

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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