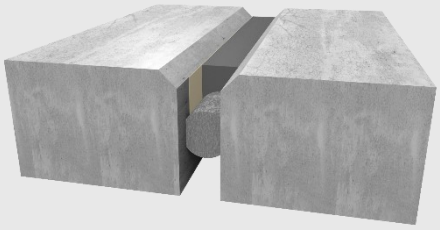
EUROLASTIC TC 30 G grey

Building authority-approved 2K polysulfide sealant for increased installation depths up to 1.6 times the joint width

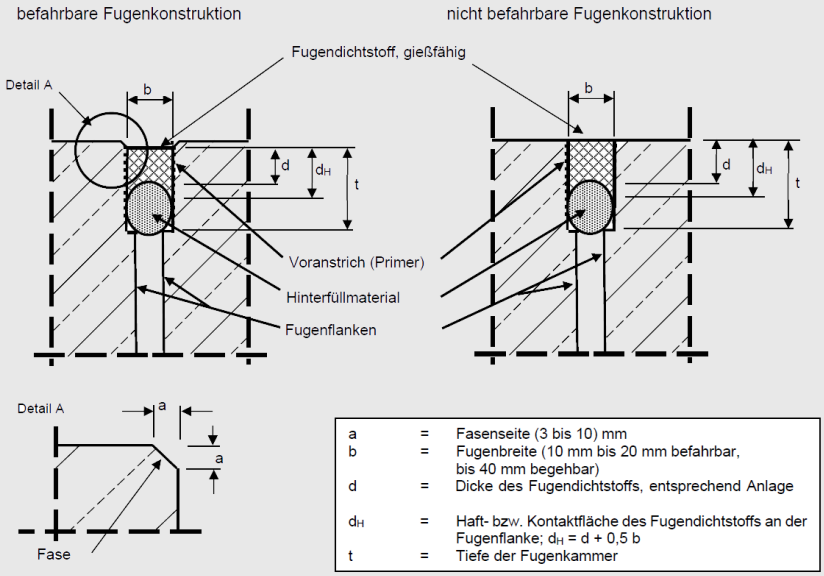


PRODUCT DESCRIPTION	EUROLASTIC TC 30 G grey is a pourable, highly chemical-resistant, elastic 2K joint sealant based on polysulfide ; suitable for processing with 2K systems.
SCOPE	- for indoor and outdoor use - for LAU facilities, filling stations, airfields, transport routes, production and - storage areas
PRODUCT FEATURES	- Cold elasticity down to -40 °C - Highly resistant to chemicals, e.g., fuels, oils, Aviation fuels, de-icing agents and a variety of other Media according to the chemical resistance list - very high UV, weather and aging resistance - high notch and wear resistance - Reserves > 90%
ZGV (PERMITTED TOTAL DEFORMATION)	- ZGV = 25% => the sealant can vary in relation to the joint width from 0.8 to 1.6 times the depth - ZGV = 35% => the sealant can vary in relation to the joint width from 0.8 to 1.0 times the depth can be installed
COLORS	- Grey
SUBSTRATE PREPARATION	- The substrate temperature must be in the range of +5°C until +45 °C and the temperature of the bonding surfaces at least 3 °C above the prevailing dew point temperature. polysulfide-based may remain on the joint flanks. Furthermore, as part of the substrate preparation, surfaces with adhering cement/sinter skin, formwork surfaces, precast concrete - elements, etc., must be pretreated by grinding or cutting with a diamond tool. The bonding surfaces must be clean, free of oil and grease, dry, and

	free of any substances that could impair adhesion at the time of grouting. Optimal cleaning of the joint edges before grouting is achieved using a joint brushing machine with a rotating round braided brush.
BACKFILL	The joint space must be tightly and firmly backfilled with closed-cell polyethylene round cord. This must not be damaged when applying the sealant.
PRIMER/CONTACT MATERIALS	EUROLASTIC TC 30 G grey should only be applied to primed bonding surfaces. Eurolastic Primer U12G - absorbent substrates: - Concrete, fiber-reinforced concrete, cement-bound repair mortars and concretes (PCC systems) Eurolastic Primer S2- Non-absorbent surfaces: - Polymer concrete based on UP resin, epoxy resin-based concrete repair - mortar, uncoated and unalloyed steel, alloyed steel (stainless steel) with - primer ZM coated surfaces - Ultra-high-performance concrete up to C100/115 Eurolastic Primer ZM - Corrosion protection primer: KTL-coated steel, unprotected steel, unalloyed steel, After the Primer ZM has cured, the EUROLASTIC Primer S2 must be applied.
PROCESSING CONDITIONS	- Processing temperature: +5°C to +40°C - Material temperature during manual processing: - min. +10°C, max. +25°C - Material temperature during machine processing: min. +10°C, max. +60°C
PROCESSING	- EUROLASTIC TC 30 G grey is supplied in the correctly balanced ratio of components A and B. Add the B component completely to the A component and mix thoroughly with a slow-running agitator at approximately 300 rpm. The mixing process must continue for at least 3–5 minutes until a homogeneous, streak-free state is achieved. Fill the mixture into a hand-held caulking gun or transfer the contents of the container to a pressure vessel with a hose and nozzle. For joint sealing. The joint chamfer must not serve as an adhesive surface. Air bubbles that have formed on the surface after installation can be opened within the sealant's working time by lightly brushing them with a dry, soft brush. The

- joint sealant must be installed in accordance with the installation instructions; see the building authority approval from the DIBt.
With a mixing ratio of 100:20 by weight , both manual application and processing with a two-component (2K) system are possible. With a mixing ratio of 1:1 by volume, processing with a two-component (2K) system is recommended exclusively.

PERMITTED INSTALLATION GEOMETRY



Tables: Permissible installation geometries for ZGV 25% and ZGV 35%

ZGV = 25% => the sealant can be installed to a depth of 0.8 to 1.6 times the joint width.					
Accessible with vehicles with pneumatic tires			Accessible by pedestrians		
b	d	dH	b	d	dH
mm			mm		
10	10 to 16	15 to 21	10	10 to 16	15 to 21
Intermediate values can be interpolated.			Intermediate values can be interpolated.		
20	20 to 32	30 to 42	20	20 to 32	30 to 42

ZGV = 35% => the sealant can be installed to a depth of 0.8 to 1.0 times the joint width.	
Accessible with vehicles with pneumatic tires	Accessible by pedestrians

b	d	dH	b	d	dH
mm			mm		
10	10	15	10	10	15
Intermediate values can be interpolated.			Intermediate values can be interpolated.		
20	20	30	20	20	30

CLEANING

The tools can be cleaned with EUROLASTIC Cleaner G from
Fresh material can be cleaned. Once reacted, it can only be cleaned mechanically.

CONSUMPTION

Joint width in mm	Joint depth in mm	consumption in ml/m
10	10	approximately 100
15	12 - 15	approx. 180 - 225
20	16 - 20	approximately 320 - 400
25	20 - 25	approximately 500 - 625
30	24 - 30	approximately 720 - 900
35	28 - 35	ca. 980 - 1225
40	32 - 40	ca. 1280 - 1600

PACKAGING

EUROLASTIC TC 30 G grey is supplied in 4 L, 10 L, 20 L and 200 L containers.

STORAGE AND SHELF LIFE

Store in cool and dry conditions
(+10°C to +25°C). Under these conditions, the shelf life in the unopened and undamaged original container is 12 months.

EXAMS/ APPROVALS/STANDARDS

- General building authority approval for use in LAU facilities abZ : Z-74.6-128
- TL-Fug StB 01
- ZTV-Fug StB 15
- DIN EN 14188 - 2
- Tested according to US FED SPEC SS-S-200E
- Tested according to ASTM C920

SPECIAL INSTRUCTIONS/PROTECTIVE MEASURES	EUROLASTIC TC 30 G grey should only be applied in well-ventilated areas. Appropriate protective equipment must be worn during application. Waste and containers must be disposed of safely. Avoid release to the environment. Completely empty containers can be returned to the KBS/Interseroh recycling system. The instructions in the corresponding safety data sheet must be strictly observed.

TECHNICAL SPECIFICATIONS	UNIT	VALUE
Material basis		Polysulfide/Manganese dioxide
Polymer content	%	> 40
Variant 100:20 Mixing ratio A : B	Weight .-T.	100 : 20
Variant 1:1 Mixing ratio A : B	Volume shares	1:1
Number of components		2-component
Density at +23°C	g/cm3	1.50 to 1.55
Solid volume at +23°C	%	100
Viscosity at +23°C		Pourable/self-leveling
Processing time at +23°C/50% RH .	min	30 - 60
time at +23°C/50% r.l.h.	h	24 - 48
Object and processing temperature	°C	from +5 up to +45
Temperature resistance	°C	from -40 until +120

MECHANICAL PROPERTIES	UNIT	VALUE
Shore A hardness		approx. 26
Permissible total deformation at 0.8 - 1.6 times the ratio of sealant thickness to joint width	%	25
Permissible total deformation at 0.8 - 1.0 times the ratio of sealant thickness to joint width	%	35
Tensile stress value at +23°C	N/mm²	approx. 0.20
Tensile stress value at -20°C	N/mm²	approx. 0.34
Tensile stress value at +23°C and -20°C		E140
Reserves	%	> 90

*These figures are guidelines only. They are not intended for creating specifications.

The data were obtained at +23°C and 50% relative humidity. Higher temperatures and/or higher relative humidity may shorten or lengthen these times. All technical data, dimensions, and information in this datasheet are based on laboratory tests. Actual measured data may differ in practice.

EUROTEAM

Chemical resistance EUROLASTIC TC 30 G grey

ALCOHOLS AND GLYCOL ETHERS

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
1-Butoxy-2-propanol		5131-66-8			X
2-ethylhexanol		104-76-7			X
2-propanol		67-63-0			X
1-Butanol		71-36-3			X
Ethylene glycol		107-21-1			X
Ethanol		64-17-5			X
Ethylene glycol	>98%	111-90-0			X
glycol-water					X
Glycerine		56-81-5			X
Isobutanol		78-83-1			X
Isononanol		3452-97-9			X
n-Hexanol		111-27-3			X
n-Nonanol		143-08-8			X
n-Octanol		111-87-5			X
NPG liquid (neopentyl glycol)		126-30-7			X
n-Propanol		71-23-8			X
Triglycol		112-27-6			X

ORGANIC ACIDS (CARBOXYLIC ACIDS)

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
2-hydroxypropanoic acid		50-21-5		X	
Formic acid	0,05%	64-18-6			X
Formic acid	0,1%	64-18-6		X	
Formic acid	75 %	64-18-6	X		
Acetic acid	10%	64-19-7		X	
Acetic acid	30%	64-19-7	X		
Gluconic acid	50%	526-95-4			X
L-glutamic acid, N,N-diacetic acid, tetrasodium salt	47%	51981-21-6			X
methanesulfonic acid		75-75-2	X		

INORGANIC ACIDS

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
Dilute sulfuric acid	25%	7664-93-9		X	
Sulfuric acid	96%	7664-93-9	X		
Hydrofluoric acid		7664-39-3	X		
Mineral acids up to 20% and acid-hydrolysing inorganic salts in aqueous solution (pH < 6)					X
Phosphoric acid	10%	7664-38-2			X
Phosphoric acid	25%	7664-38-2		X	
Phosphoric acid	85%	7664-38-2	X		
Nitric acid	10%	7697-37-2			X
Nitric acid	40%	7697-37-2	X		
Hydrochloric acid	10%	7647-01-0		X	
Hydrochloric acid	37%	7647-01-0	X		

ALKALIS / ALKALINE SOLUTIONS

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
Ammonia	25%	1336-21-6			X
Inorganic alkalis and alkaline-hydrolysing inorganic salts in aqueous solution (pH > 8)					X
Calcium hydroxide with water		1305-62-0			X
Potassium hydroxide	Solid	1310-58-3			X
Potassium hydroxide solution	<=50%	1310-58-3			X
Sodium hydroxide	Solid	1310-73-2			X
Sodium hydroxide	50%	1310-73-2			X
Sodium silicate					X
Sodium silicate solution					X
Aqueous solution of alkali polyphosphates, aqueous sodium silicate solution					X
Aqueous solutions of non-oxidising inorganic salts with a pH between 6 and 8					X

INORGANIC SALTS					
Chemical name	**Concent-ration**	**CAS number**	**Not recommended**	**Good resistance**	**Very good resistance**
Aluminium sulphate		10043-01-3			X
Ammonium chloride	0,35%	12125-02-9			X
Ammonium nitrate	0,40%	6484-52-2			X
Ammonium peroxydisulphate		7727-54-0		X	
Ammonium phosphate	0,40%	10124-31-9			X
Calcium chloride	0,40%	10043-52-4			X
Calcium chloride	Solid	10043-52-4			X
Iron(II) sulfate, crystalline and in aqueous solution		7782-63-0			X
Iron(III) chloride hexahydrate and in aqueous solution		10025-77-1			X
Potassium carbonate	0,15%	584-08-7			X
Potassium dichromate	0,20%	7778-50-9			X
Potassium nitrate	0,40%	7757-79-1			X
Potassium permanganate	0,02%	7722-64-7			X
Potassium sulphate		7778-80-5			X
Sodium acetate	aqueous solution	127-09-3			X
Sodium bicarbonate	Solid	144-55-8			X
Sodium chloride	aqueous solution	7647-14-5			X
Sodium dimethyldithiocarbamate	40% in aqueous solution	128-04-1			X
Sodium nitrite	< 50%	7632-00-0			X
Orthophosphate					X
Pentapotassium triphosphate	50%	13845-36-8			X
Sodium sulfide	60% in aqueous solution				X
Silicate/phosphate combination					X
Silicates, carbonates, phosphates					X
Zinc nitrate, 5% nitric acid solution		10196-18-6, 7697-37-2		X	
Zinc phosphate, zinc oxide		7779-90-0, 1314-13-2			X

OXIDISING AGENTS / CHLORINE PRODUCTS

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
1-Bromo-3-chloro-5,5-dimethylhydantoin		16079-88-2		X	
Sodium dichloroisocyanurate dihydrate	diluted, not at high concentration	51580-86-0			X
Sodium hypochlorite solution	0,12%	7681-52-9		X	
Sodium hypochlorite bleach solution	up to 15% active chlorine content				X
Trichloroisocyanuric acid	In the absence of water!	87-90-1			X
Hydrogen peroxide	up to 50%	7722-84-1			X

AMINES / AMINE COMPOUNDS

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
2-EH amine (2-ethylhexylamine)		104-75-6			X
3-Methylbutylamine		107-85-7			X
Amines and their salts (in aqueous solution)					X
Amines, alkoxylated				X	
Di-2-EH amine; bis(2-ethylhexyl)amine		106-20-7			X
Di-n-butylamine		111-92-2			X
Ethylenediaminetetraacetate	40%	60-00-4			X
Urea solution	32,50%	57-13-6			X
Isopropylamine		75-31-0			X
n-Butylamine		109-73-9			X
N-Ethylbutylamine		110-68-9			X
N,N-Dimethylbutylamine		927-62-8			X
n-Octylamine		111-86-4			X
Tri-n-butylamine		102-82-9			X
Tri-n-propylamine		102-69-2			X

SOLVENTS / HYDROCARBONS

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
Acetone		67-64-1		X	
Aliphatic hydrocarbons					X
Aromatic esters and ketones					X
Benzene and benzene-containing mixtures		71-43-2		X	
Butyl acetate		123-86-4		X	
C12/C14 Olefin		112-41-4/1120-36-1			X
C6 fraction / C6 aromatics				X	
Chlorobenzene		108-90-7			X
Ethyl acetate		141-78-6			X
Isoalcanes-C11-C15		90622-58-5			X
Isododecane		31807-55-3			X
Iso-Pentan (Hydrocarbons, C5-rich)				X	
Hydrocarbons (including white spirit)					X
C7 hydrocarbons (S 902)				X	
N-Methyl-2-pyrrolidone		872-50-4	X		
Solvent naphtha (petroleum), light aliph.				X	

OILS / FUELS / LUBRICANTS

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
Biodiesel		67762-38-3			X
diesel fuels		68476-34-6 ; 68334-30-5			X
gear oil 220					X
HC kerosene (highly aromatic)				X	
HC de-aromatised kerosene					X
HC High-Octane Petrol				X	
HC de-aromatised heavy petrol					X
wood oil				X	
Mineral oil PKWF 6-9		64742-13-8			X
SAE 40 engine oil					X
n-Dodecane mineral oil		112-40-3			X

n-Undecane mineral oil		1120-21-4			X
vegetable oil		68648-24-8			X
pine-oil fatty acid		61790-12-3			X
Pyrolysis oil				X	
raw rolling oil				X	
lubricant					X
sunflower oil		8001-21-6			X
premium petrol					X
heat-transfer oil					X
naphtha (white spirit)		64742-82-1			X

SURFACTANTS / CLEANING AGENTS

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
Alkylbenzenesulfonic acid		85536-14-7		X	
Alkyldimethylamine oxide	30%	61788-90-7		X	
Benzenesulfonic acid, C10-13		68411-30-3, 78330-20-8		X	
Fatty alcohol alkoxylate		120313-48-6			X
Fatty alcohol polyglycol ether; 2-propanol; phosphoric acid					X
Sodium cumenesulfonate	40%	15763-76-5	X		
Sodium lauryl sulfate	100%	68891-38-3			X
Oxo alcohol ethoxylate					X
Aqueous solutions of organic surfactants					X

SPECIALITY CHEMICALS / ADDITIVES / MISCELLANEOUS

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
Various filter gravels / sands					X
DS sand (solid)					X
Erythrosine solution					X
Formaldehyde solution	up to 40%	50-00-0		X	
formulated polyethers					X
formulated polyether carbonate polyols					X
Manganese dioxide, iron oxide, silicon dioxide, aluminium oxide					X
modified polyethers					X

Polyacrylic acid		7681-38-1		X	
Polyether					X
Polyether carbonate polyols					X
Polyphosphate					X
Polyphosphate, orthophosphate					X
Urethane alkyd resin	39 - 43 %				X

ADDITIONAL TESTED SUBSTANCES

Chemical name	Concent-ration	CAS number	Not recommended	Good resistance	Very good resistance
Skydrol LD 4					X
Sodium formate-based de-icing agents					X
Potassium formate-based de-icing agents		590-29-4			X
Paraffinic diesel fuel "XTL" according to DIN EN 15940, edition July 2023, (e.g. HVO)					X
Crude oils		8002-05-9			X
Methanol		67-56-1			X
Aviation fuels					X
Sustainable Aviation Fuel (SAF)					X
Urea up to 35% in aqueous solution					X

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