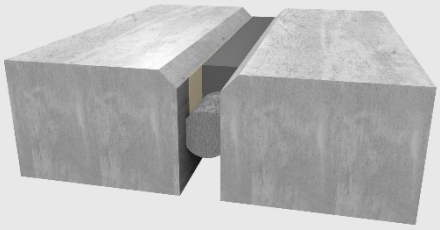
EUROLASTIC TC 30 G grey

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

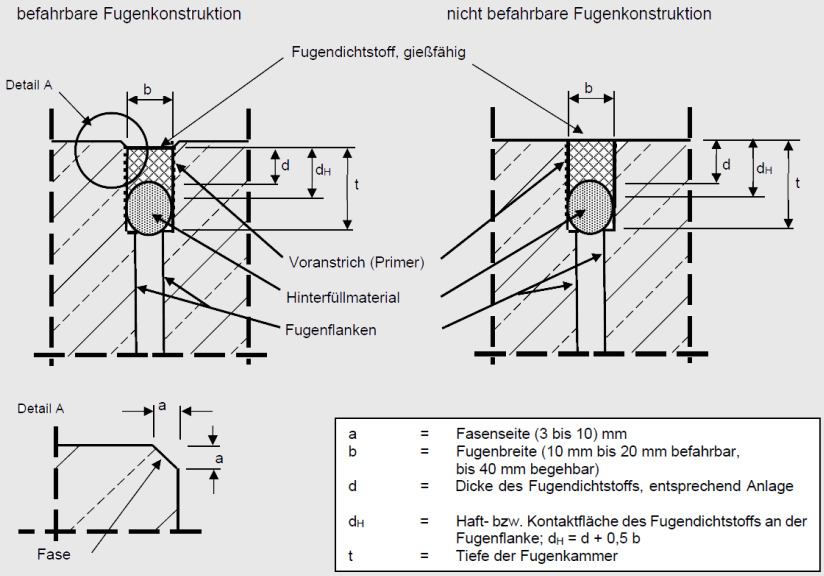


PRODUCT DESCRIPTION	EUROLASTIC TC 30 G grey is a pourable, highly chemical-resistant, elastic 2K joint sealant based on polysulfide ; suitable for processing with 2K systems.
SCOPE	- for indoor and outdoor use - for LAU facilities, filling stations, airfields, transport routes, production and - storage 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.

EUROTEAM

List of liquids against which the joint sealing system has been tested to be impermeable and chemically resistant.		
Group No.	approved liquids [1]) for the plant operating modes [2]) Storage (L), Filling (A) and Transfer (U) according to stress level* low (1), medium (2) and high (3)	Operating mode and level[2])
1[3])	Gasoline fuels according to DIN EN 228 with a maximum (bio)ethanol content of 5% by volume according to DIN EN 15376	LAU2
1a[3])	Petrol fuels according to DIN EN 228 with the addition of biofuel components according to Directive 2009/28/EC up to a total content of 20% by volume	
2[3])	aviation fuels	
3	– Heating oil EL according to DIN 51603-1, – unused combustion engine oils and motor vehicle transmission oils, – Mixtures of saturated and aromatic hydrocarbons, characterized by an aromatic content of ≤ 20 wt.% and a flash point > 60 °C	
3b[3])	Diesel fuels according to DIN EN 590 with the addition of fatty acid methyl esters (FAME) according to DIN EN 14214 up to a total content of max. 20% by volume	
3c[3])	Diesel fuel blends according to DIN EN 16709 with a high proportion of fatty acid methyl esters (FAME) up to a total content of max. 30% by volume	
4	all hydrocarbons, as well as benzene-containing mixtures with a total content of max. 5% by volume benzene, except fuels	LAU1
4a	Benzene and benzene-containing mixtures	
4b	Crude oils	LAU2
4c	used combustion engine oils and used motor vehicle transmission oils with a Flash point > 60 °C	
5	Monohydric and polyhydric alcohols with a maximum of 48% by volume methanol and ethanol (total), glycol and Polyglycols, their monoethers and their aqueous mixtures	
5a	all alcohols and glycol ethers as well as their aqueous mixtures	
5b	Monohydric and polyhydric alcohols ≥ C2 with max. 48 vol% ethanol and their aqueous mixtures	
5c	Ethanol including ethanol according to DIN EN 15376 (regardless of the manufacturing process) as well as their aqueous solutions	
7	organic esters and ketones, except fatty acid methyl esters (FAME)	LAU1
7a	aromatic esters and ketones, except fatty acid methyl esters (FAME)	
7b[3])	Biodiesel according to DIN EN 14214	LAU2
8	Aqueous solutions of aliphatic aldehydes up to 40%	
9	Aqueous solutions of organic acids (carboxylic acids) up to 10% and their salts (in aqueous solution), except for lactic acid and formic acid	
10	inorganic acids up to 20% and acid hydrolyzing, inorganic salts in aqueous solution Solution (pH < 6), except hydrofluoric acid and oxidizing acids and their salts	
11	inorganic alkalis and alkaline hydrolyzing inorganic salts in aqueous solution (pH > 8), except for ammonia solutions and oxidizing solutions of salts	

	(e.g. hypochlorite)	
12	Aqueous solutions of inorganic non-oxidizing salts with a pH between 6 and 8	
13	Amines and their salts (in aqueous solution)	
14	aqueous solutions of organic surfactants	
Single liquid:		
---	Skydrol LD 4	
---	Sodium formate- based de-icing agents , e.g. " Pergrip Run NF"	
---	Potassium formate-based de-icing agents , e.g. " Pergrip Run KF"	
---[3])	Paraffinic diesel fuel "XTL" according to DIN EN 15940, edition July 2023, (e.g. HVO)	
---[3])	Urea up to 35% in aqueous solution	LA3/U2

1) Unless otherwise stated, the listed liquids are either technically pure substances or mixtures of technically pure substances of the respective group, but not mixed with water, unless otherwise indicated.

2) DWA-A-786 worksheet, Technical Rules for Substances Hazardous to Water (TRwS), Design of Sealing Surfaces; DWA (version October 2020)

3) usable in filling stations in accordance with TRwS 781 to TRwS 784 (worksheets DWA-A-781:2018-12, with correction of 2019-05, DWA-A 782:2006-05, DWA-A 783:2005-12 and DWA-A 784:2006-04, Technical Rules for Substances Hazardous to Water (TRwS), filling stations for motor vehicles, rail vehicles, water vehicles and aircraft)

EUROTEAM

TECHNICAL DATA*

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.