



The Chemical Company

ESCUTAN TF

Joint sealant for sewage treatment plants, civil construction including holding tanks & distribution

Uses

- For interior and exterior application.
- For walls and floors.
- Sealing horizontal and vertical expansion and other joints in high-rise and civil engineering construction, even under seeping ground water and non-pressing surface water.
- For sewage treatment plants, harbour facilities, waterways and locks up to 2 bar pressure.
- Sealing of pipes and precast elements used in sewage canals in accordance with the appropriate test report from the Institute of Building technology.
- Sealing joints in floor screeds and concrete slabs.
- Sealing metal sidings/roofing.
- Sealing collars on overhead electrical wire poles.

User benefits

- Elastic, good recovery properties.
- Waterproof and pressure resistant, for continually wet conditions – withstands water pressure up to 2 bar (at 2cm joint width).
- Resistant to weathering and aging, resistant to temperatures from -30°C to +80°C.
- Resistant to chemicals and against many acids, lyes, fats and oils.
- Has no thermoplasticity, it is superior to bitumen and tar pastes.
- Microbe resistant, it is resistant to the micro-organisms found in sewage water.
- Root resistant, the joint sealant cannot be destroyed through root growth.
- Highly resistant to mechanical stress, and thus well suited for floor joints exposed to vehicle traffic.
- Officially tested and approved, by the SKZ in Würzburg, and by the Institute of Building Technology in Berlin.

Packaging

ESCUTAN TF

2.5 litre can; color: Grey and black

MASTERFLEX PRIMER NO. 1

500 ml package

Material base

Two part polyurethane.

Typical properties

Components	Two
Density	1.5 g/cm ³
Consistency	paste
Color	base component: Grey – hardener: white
Working temp.	+5°C to +30°C (surface and material temp)
Mixing time	about 5 minutes
Workability	about 50 minutes
Curing time**	about 36 to 48 hours
Temp. service range	-30°C to +80°C
Practical elasticity	Approx. 20% the width of the joint
Shore A-hardness	30 to 35

* at 23°C – lower temperatures lengthen, higher temperatures shorten this time.

** at 23°C and 50% rel. humidity. An accelerator can be used at lower temperatures.

Surface preparation

The surface must be clean, dry, solid and free of dust, oils and dirt. Steel must be cleaned to bright metal. Completely remove any remains of tar oil impregnated joint spacers.

Sand blast or grind away cement slurry from joints. Use CONGRESIVE resin mortars to repair breaks at the edges of joints. Joint profiles have to be primed with MASTERFLEX PRIMER NO. 1. Allow the primer to become tack free before applying the ESCUTAN TF. Reprime the joint if it is not possible to apply the ESCUTAN TF within 4 hours of applying the primer. In deeper joints, back-fill the joint with non-rotting, closed cell backer rod.

To prevent the sealant from sticking to the bottom of the joint, lay a foil strip or polyethylene tape down before applying the sealant.

Mixing

Mix all of the hardener component with the base component using a suitable mixing head and a slow speed drill (about 400 rpm). Mix steadily for



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about 5 minutes. Scrape the inside of the tin after 2 minutes.

Cleaning

Use SOLVENT NO. 2 before the sealant starts to set.

Sealing of joints

ESCUTAN TF can be applied horizontally or vertically. With wide joints, press ESCUTAN TF into the edges of the joint first and spread it well with the scraper to achieve sufficient adhesion. Then fill the rest of the joint with more ESCUTAN TF.

Protective sleeves for power line towers

Coat the points where the steel of the tower is connected to the concrete foundation with ESCUTAN TF. Press it in well and smooth the surface.

Consumption

Calculate using the formula: joint width (mm) x joint depth (mm) =ml / meter of joint.

Health and safety

Hardener component:

Contains isocyanate. Follow the manufacturer's instructions carefully. Skin irritant. Avoid skin and eye contact. If contact with eyes should occur, wash thoroughly with water and contact a physician if needed. If the product comes in contact with skin, wash thoroughly with plenty of soap and water.

Notes

- Do not use ESCUTAN TF at surface temperature of less than +5°C or higher than +40°C.
- In horizontal joints in asphalt and synthetic resin screeds, use ESCUTAN TF only in conjunction with suitable joint profiles.
- ESCUTAN TF is not suited for use in swimming pools.
- The temperature of the ESCUTAN TF components should not drop below +10°C during mixing.
- Do not thin ESCUTAN TF.

Storage

ESCUTAN TF can be stored approx. one year if kept dry.

Chemical resistance (500 hour testing time at +20°C)

	conc. (wt. %)	
Chemicals according to DIN 4030		+
Sea water		+
Acids		
Hydrochloric acid	Up to 5%	+
Sulphuric acid	Up to 30%	+
Lyes		
Caustic soda	up to 5%	+
Ammonia solution	up to 20%	+
Fats/oils		
Brake Fluid		+
Diesel Fuel		+
El heating oil		+
Hydraulic oil		+
Mineral oil		+
Others		
Ethylalcohol	Up to 20%	+
Glycerol	Up to 20%	+
Jet fuel		(-)
Unleaded gasoline		(-)
Leaded gasoline		(-)
Sewage		+

+ = resistant

(-) = short term resistance

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9000, ISO 14001 and OHSAS 18001.

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* Properties listed are only for guidance and are not a guarantee of performance.

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