Product data sheet

edilon)(sedra Corkelast® TO (m)
North America

edilon)(sedra Corkelast® TO (m) is a polyurethane elastomer designed for durable fastening and elastic support in edilon)(sedra rail fastening systems. At the installation of these systems, the two liquid components of Corkelast® TO (m) are processed with a two-component dosing and mixing machine. Subsequently the product is poured into the dedicated space, levels out and cures into a solid elastomer.

Corkelast® TO (m) is especially developed for rail fastening systems with higher stiffness.

FEATURES

+ Durable over time and under various climatic conditions	+ Absorbs dynamic and cyclic track loads
+ Good chemical resistance against deterioration	+ Provides reduction of vibrations of the rail
+ Excellent electrical insulation	+ Moderate curing speed

PROPERTIES

Density cured product (ISO 1183-1 Method A; machine mixed)		0.90 g/cm³	Operating temperature range	-40 °C to +80 °C
Indentation hardness (ISO 48-4; 28 days cured)		55 Shore A	Mixing ratio by weight (comp. 1 : comp. 2)	100.0 : 10.0
Tensile strength (ISO 527-2)		≥ 1.5 MPa	Mixing ratio by volume (comp. 1 : comp. 2)	100.0 : 7.2
Tensile strain at break (ISO 527-2)		≥ 120 %	Colour mixed product	Black
Ignitability, Flame spread (ISO 11925-2)		≤ 150 mm	Reaction to fire (EN 13501-1)	Class E
Volume resistivity (EN 62631-3-1)	dry	$2.1 \cdot 10^{12}$ Ω·cm		

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Applied test samples and test methods are subject to change without prior notice.

PACKAGING, STORAGE & SHELF LIFE

The Corkelast® TO (m) packaging consists of two individually packed components with a combined unit size of 176 kg product. Component 1 (160 kg in a steel drum) and component 2 (16 kg in a steel pail) are packed in the appropriate amounts for mixing.

Store the components either in a depot or at the place of work under dry conditions and away from direct sunlight. The storage temperature must be between **+5 °C** and **+30 °C**.

In their original, unopened packaging and under the above mentioned conditions, the components have a shelf life of **24 months maximum**.

SURFACE CONDITIONS

Surfaces must be prepared before application of Corkelast® TO (m) in the edilon)(sedra rail fastening system. It is necessary to use a primer on pretreated surfaces. One of the primers that are shown in the table on the right must be used.

- edilon)(sedra Primer U90WB
- edilon)(sedra Primer 21

Please see the product data sheet of the appropriate primer for more information about the pretreatment of the various surfaces in edilon)(sedra rail fastening systems and about the application of the primer.

Before pouring of Corkelast® TO (m), make sure that the primed surfaces are completely dry and clean, and that the product is applied within the open time window of the primer.

APPLICATION CONDITIONS

The application conditions of Corkelast® TO (m) depend on the type of primer used. Avoid any contact with water from before primer application to and including Corkelast® curing.

Surface temperature	+5 °C to +45 °C	for Primer U90WB
	+5 °C to +45 °C	for Primer 21
ΔT dew point	> 3 °C	
Product temperature	+15 °C to +30 °C	

Relative air humidity	< 90 %	for Primer U90WB
	< 80 %	for Primer 21
Primed surfaces	Dry and clean	
Environment	Dry or in a conditioned environment	

MIXING & POT LIFE

Corkelast® TO (m) is processed by means of a two-component dosing and mixing machine. The correct mixing ratio of the product must be set in the machine control. Please refer to the machine supplier's instruction manual.

Prior to processing of Corkelast TO (m) with a two-component dosing and mixing machine, component 1 in the 160 kg material drum must be pre-mixed with a drum agitator (e.g. Geppert Rührtechnik, VISCO JET or similar). Pre-mix component 1 for at least 5 minutes and keep the mixture homogeneous.

The pot life of Corkelast® TO (m) depends on the product temperature as shown in the table.

Product temperature (°C)	15 - 20	20 - 25	25 - 30
Pot life (minutes)	13	12	11

CURING

The minimum curing time of Corkelast® TO (m) is related to the temperature of the surfaces of the dedicated space.

The track can be taken in operational service after the minimum curing time has elapsed.

Surface temperature (°C)	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 45
Curing time (hours)	6	4	3	2.5	2	2	1.5

ADDITIONAL DOCUMENTS

Please see the following documents for more information about edilon)(sedra products:

- Product data sheets
- User data sheets
- Safety data sheets
- Logistical data sheets

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