Product data sheet

edilon)(sedra Corkelast® VA-60
North America

edilon)(sedra Corkelast® VA-60 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 the Corkelast® are mixed. Subsequently the product is poured into the dedicated space, levels out and cures into a solid elastomer.

FEATURES

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

PROPERTIES

Density cured product (ISO 1183-1 Method A, Edimix mixed)		1.05 g/cm³
Indentation hardness (ISO 48-4; 7 days cured)		55 Shore A
Tensile strength (ISO 527-2)		≥ 1.5 MPa
Tensile strain at break (ISO 527-2)		≥ 140 %
Volume resistivity (EN 62631-3-1)	dry	$1.5 \cdot 10^{11}$ Ω·cm
Volume resistivity (ASTM D257)	dry	~$1.9 \cdot 10^{11}$ Ω·cm

Operating temperature range		-40 °C to +80 °C
Mixing ratio by weight (comp. 1 : comp. 2)		100 : 50
Colour mixed product		Dark grey
Flash point (ASTM D93)		+164 °C
Fire behaviour / Flame spread (NF P 92-507)		M4
Smoke index (NF F 16-101)		F2
UV resistance at surface (ASTM G154; 1000h QUV)	visual	Colour change
	mech. properties	Changes < 10 %

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

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PACKAGING, STORAGE & SHELF LIFE

The Corkelast® VA-60 packaging consists of two individually packed components with a combined unit size of 12 kg product. Component 1 (in a pail) and component 2 (in a tin) 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 conditions mentioned above, the components have a shelf life of **24 months maximum**.

CHEMICAL RESISTANCE

Demineralised water	1
Fresh rain water	2
Sodium hydroxide solution (5 %)	1
Sodium chloride solution (10 %)	0

Oxalic acid solution (5 %)	2 & 3
Lime mixture with pH 13	2
Sulphuric acid solution (2 %)	2

All according to ISO 2812-1:1993 Method 2

Diesel	3
Petrol (Euro 95)	1
Motor oil SAE 30	1 & 3

0 = No stain visible
1 = Stain slightly visible
2 = Stain clearly visible
3 = Swelling/shrinkage

SURFACE CONDITIONS

Surfaces must be prepared before application of Corkelast® VA-60 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 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 proper pretreatment of the various surfaces in the edilon)(sedra rail fastening systems and application of the primer.

Before pouring Corkelast® VA-60, 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® VA-60 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 +5 °C to +45 °C	for Primer U90WB for Primer 21	Relative air humidity	< 90 % < 80 %	for Primer U90WB for Primer 21
ΔT dew point	> 3 °C		Primed surfaces	Dry and clean	
Product temperature	+15 °C to +30 °C		Environment	Dry	

MIXING & POT LIFE

Prior to mixing of Corkelast® VA-60, pour one tin of component 2 completely into one pail of component 1. Mix both components thoroughly with an **edilon)(sedra Edimix** mixing machine to achieve a homogeneous mixture.

The pot life of Corkelast® VA-60 depends on the product temperature as shown in the table.

Product temperature (°C)	15 - 20	20 - 25	25 - 30
Pot life (minutes)	17	14	13

CURING

The minimum curing time of Corkelast® VA-60 is related to the temperature of the surfaces of the dedicated space, as shown in the table.

Surface temperature (°C)	5 - 10	10 - 15	15 - 30	30 - 40	40 - 45
Minimum curing time (hours)	3	2.5	2	1.5	1

Once the last unit of Corkelast® has been applied in an edilon)(sedra rail fastening system, the track can be taken in operational service after the minimum curing time has elapsed.

ADDITIONAL DOCUMENTS

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

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

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edilon)(sedra bv
Luzernestraat 43
NL-2153 GM Nieuw-Vennep
P.O. Box 1000
NL-2003 RZ Haarlem
T +31 23 531 95 19
mail@edilonsedra.com
www.edilonsedra.com

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