

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/cm ³	Operating temperature range	-40 °C to +70 °C
Indentation hardness (ISO 48-4; 7 days cured)	55 Shore A	Mixing ratio by weight (comp. 1 : comp. 2)	100 : 50
Tensile strength (ISO 527-2)	≥ 1.5 MPa	Colour mixed product	Dark grey
Tensile strain at break (ISO 527-2)	≥ 140 %	Flash point (ASTM D93)	+164 °C
Volume resistivity (EN 62631-3-1)	dry 224 MΩm wet (0.1 N NaCl) 34.9 MΩm	Fire behaviour / Flame spread (NF P 92-507)	M4
UV resistance at surface (ASTM G154; 1000h QUV)	visual Colour change mech. properties Changes < 10 %	Smoke index (NF F 16-101)	F2
		Applied test samples and test methods are subject to change without prior notice.	CL2016-0301REC3.16

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	Oxalic acid solution (5 %)	2 & 3	Diesel	3
Fresh rain water	2	Lime mixture with pH 13	2	Petrol (Euro 95)	1
Sodium hydroxide solution (5 %)	1	Sulphuric acid solution (2 %)	2	Motor oil SAE 30	1 & 3
Sodium chloride solution (10 %)	0	All according to ISO 2812-1:1993 Method 2		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 for Primer U90WB +5 °C to +45 °C for Primer 21	Relative air humidity	< 90 % for Primer U90WB < 80 % 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 about edilon(sedra products:

- Product data sheets for edilon(sedra products
- User data sheets for edilon(sedra products
- Safety data sheets for edilon(sedra products
- Logistical data sheets for edilon(sedra products

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Product data sheet
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