

ECOCRYL E

Properties:

ECOCRYL E is a three-component, water-swelling hydrogel based on acrylate that hardens to an elastic product.

ECOCRYL E is especially noted for its low blending viscosity that is almost equivalent to the viscosity of water. ECOCRYL E can be applied in the case of grout curtains and ground stabilisation.

Differing pot-lives can be defined (see pot-life tables below), adapted to the application and environmental temperature, by varying the AII- (500 g or 1000 g) and the B-amount of salt (100 g up to 1000 g based on 20 kg AI component).

Technical data:

Substance data of components:

Component AI

Consistency	liquid	
Colour	purple	
Odour	characteristic	
Spec. density (20°C)	approx. 1.15 g/cm ³	DIN EN ISO 3675
Dyn. viscosity (20°C)	approx. 20 mPas	DIN EN ISO 2555

Component AII

Consistency	liquid	
Colour	colourless	
Odour	amine-like	
Spec. density (20°C)	approx. 1.12 g/cm ³	DIN EN ISO 3675
Dyn. viscosity (20°C)	approx. 280 mPas	DIN EN ISO 2555

Component B

Consistency	solid	
Colour	white	
Odour	odourless	
Spec. density (20°C)	approx. 2.59 g/cm ³	
Bulk density (20°C)	approx. 1.15 g/cm ³	

Mixture of A- and B-component:

Processing temperature *	5 - 40°C	substrate temperature
Viscosity of mixture (20°C)	approx. 3-4 mPas	DIN EN ISO 2555

Reaction data at 20°C:

Pot-life **	9 s - 7 min	DIN EN 14022
Final curing **	2 - 20 min	

Properties after curing:

Consistency	soft-elastic	
Colour	purple	
Water absorption	approx. 100-150 %	DIN EN ISO 62

* The declared range of temperature complies with our recommendations. Generally, the product reacts even at very low temperatures (from experience down to approx. -15°C) or distinct higher values than +40°C.

Admittedly, problems might occur, which are not directly related to the properties of the product. At sharp frost the air line of the pump might freeze or even present ice inside the structural element to be sealed can cause difficulties. At temperatures above-average too short reaction times can arise, which prevent an entire and successful filling of the injection area. Beside that it might happen that the activated A-component at very high temperatures starts curing even without addition of the B-component, which results in a blockage of the injection pump.

** The indicated times are reached through different quantities of AII and B component.

Processing:

The All-container (500 or 1000 g) is emptied completely into the Al container and mixed for approx. 3 minutes.

The B-component is filled into a container equivalent to the Al component and filled with 18 litres tap water. Then it is mixed again for 3 minutes.

The A and B components prepared in this way should be processed at mixing ratio 1 : 1 (parts by volume) by means of a 2-component injection pump.

Indicated injection pumps: *BOOSTER 10 A*
MINIBOOSTER 5U

Different pot-lives can be defined depending on the amounts of All and B salt (and the temperature).

Pot-life depending on All- and B-amount (at 10 and 20°C):

T = 10°C

B [g]	All = 500 g Pot-life [min:s]	All = 1000 g Pot-life [min:s]
100	6:44	2:35
200	2:41	1:13
400	1:07	0:36
600	0:53	0:31
800	0:42	0:23
1000	0:38	0:20

T = 20°C

B [g]	All = 500 g Pot-life [min:s]	All = 1000 g Pot-life [min:s]
100	2:49	1:02
200	1:12	0:31
400	0:39	0:22
600	0:26	0:13
800	0:20	0:11
1000	0:16	0:09

Safety information:

ECOCRYL E component B is classified as hazardous according to Regulation (EC) 1272/2008 (CLP).

It is therefore necessary, before beginning processing, to become familiar with the precautions and safety advice as indicated in the material safety data sheet.

Packaging:

Component Al 20 kg-plastic canister
Component All 500 g- or 1 kg-plastic bottle
Component B 1 kg-plastic can

Bigger packaging on request.

**Storage:**

Shelf life at least 12 month in original packaging when stored in dry conditions between 15-25°C, protected from heat, frost and direct sunlight.

After the expiration the use of the product is generally not recommended, unless an approval has been provided by TPH. This approval can only be obtained by the quality assurance department of TPH releasing the material after verification of main properties being within specification.

Disposal:

Small quantities of cured product residues can be disposed of as normal domestic waste. Dispose of not cured product components must be effected in accordance with the corresponding local regulations. For further information please refer to the material safety data sheets.

Legal notice:

The correct and thus successful application of our products is not subject to our control. A guarantee can be issued for the quality of our products within the framework of our sales and supply conditions, however not for successful processing. All data and specifications in this specification sheet are based on the present state of the art and the right to changes and adaptations for the sake of development remains explicitly reserved. The consumption specifications designated by us can be only average empirical values, where deviations are possible on an individual basis and therefore cannot be excluded by us.

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