Easy PUR plus

Technical Data Sheet

Non-foaming, elasticised three-component resin

1. Purpose

Easy PUR plus is a non-foaming, elasticised three-component resin with good adhesion even on moist surfaces for reconstruction and sealing of conduit-type sewers and sewers lines in short liner procedure in sewer repair.

Easy PUR plus

- impregnates well fibre glass mats or polyester fleeces
- adheres to moist surfaces
- does not foam, even not by water influx
- cures well even in thin layers
- shuttering can be easily demoulded

Easy PUR plus is delivered in three components.
The component C is used to adjust the setting behaviour.

Advantages:
- fast application: cycle time approx. 60 minutes
- no odour nuisance
- low cost repair method

2. Components characteristics**

Easy PUR plus		Component A	Component B	Component C
Density at 23°C	g/cm³	approx. 1.48	approx. 1.13	approx. 1.11
Viskosity at 23°C	mPa*s	approx. 300	approx. 170	approx. 34
Colour		colourless	black brown	light brown
pH value		approx. 12	n.a.	> 12
Flash point	°C	-	> 200	57

3. Reaction data**

Mixing ratio (A) : (C) : (B) Vol.-T.	100 : 0 : 200				100 : 0,5 : 200				100 : 1 : 200					100 : 3 : 200					100 : 4 : 200	
Initial temperature [°C]	15	20	25	30	15	20	25	30	5	10	15	20	25	5	10	15	20	25	5	10
Pot life (spreading) [min]*	21	18	18	16	18	16	15	12	23	17	16	15	12	16	12	11	9	7	13	7
Setting [min]*	35	28	26	24	29	27	24	22	31	28	27	25	22	21	17	15	13	10	17	10
Demould time [min]*	150	120	90	70	90	90	60	50	180	90	60	60	50	90	60	55	50	45	60	55

*** The indicated times are laboratory with a scattering of ± 15 %.**

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4. Composition and properties

Components:
Easy PUR plus component A is a special aqueous sodium silicate. Component B is a modified polyisocyanate. Component C is a blend of additives improving the miscibility of the components and regulating the pot life of the mixture.

System:
During the reaction the A component cured to a silicate, simultaneously a solid polyisocyanate/polyurea is formed from the component B.

Endproduct:
Together they form an penetrating network, a tough-elastic, non-foamed silicate resin (organomineral resin).

5. Processing

Mixture:
By appropriate addition of component C, the resin setting speed can be adjusted to meet the requirements of temperature, size of the liner and installation time.

Component C is first homogenised and then mixed into the A component at the required dosage.
This blend is mixed with the double volume of B component and stirred vigorously for two minutes.

6. Storage

At least six month after delivery respectively twelve month after production when stored in a dry place between 10 °C and 30 °C.

Frost can damage the A-component. When this time is exceeded, we recommend having the material checked by I.S.T. Innovative Sewer Technologies GmbH for compliance with specification.

7. Delivery form

Component A: in tinplate drums to 7 kg or 28 kg
Component B: in tinplate drums to 5.5 kg or 21 kg
Component C: in tinplate drums to 1 kg or 5 kg

Other delivery forms on request.

**** The indicated data are laboratory values.**

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