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BETTOPUR CRACKSEAL

Polyurethane Based, Two Component, Slow Reacting, Highly Flexible Injection Resin

MATERIAL DESCRIPTION

BETTOPUR CRACKSEAL is used for filling/sealing and flexible bonding/gluing of joints, dilatations, cracks and gaps in reinforced concrete, brick or natural stone buildings and other engineering structures. It is adapted for hoses embedded in concrete structures.

TECHNICAL SPECIFICATIONS

The data presented below are laboratory data. They may vary in practice due to heat exchange between resin and concrete, surface properties of concrete, humidity, pressure and other factors.

Reaction Data (typ	ical va	alue	es):						
Mixture Ratio A : B				Volumetrically 1:1					
Initial Temperature				6	°C	15 °C		25 °C	
Viscosity Inside Following the Mixing			mPa*s	290	± 50	170 ± 40		150 ± 30	
Process At 1mm Equivalent Temperature Crack			min.	55	- 95	50 - 85		55 - 95	
1000 mPa*s Achieving Viscosity	,								
Gelling Time			clock	15 :	£ 2.0	14.5 ± 1.5		11 ± 1.0	
Foaming Factor				1	.0	1.0	0		1.0
Initial Temperature Application time of the PPRAGED Ble can) Material Data:							25 - 35 17 - 27		
Material Data			mın.	30 -	- 40	25 -	35	17 - 27	,
Material Data:			mın. Bil.			25 - I. B			
Material Data: Method									
	kg/m	3		A	Bi				
Method	kg/m	3	Bil.	A ± 15	Bi	I. B			Determinatio
Method Density at 25°C			Bil. 985 ±	A ± 15 color	Bi 1092 bro	I. B 2 ± 15	Mix		Determination
Method Density at 25°C Color	-	ı*s	Bil. 985 ±	A ± 15 color ± 50	1092 bro	I. B 2 ± 15 own	Mix	ture A+B - -	Determination DIN 12791 EN ISO 3219
Method Density at 25°C Color Viscosity at 25°C	- mPa	ı*s ı*s	985 ± honey 285 ±	A ± 15 color ± 50 ± 60	Bi 1092 bro 14	I. B 2 ± 15 own ± 3	Mix 15	ture A+B 50 ± 30	Determination DIN 12791 EN ISO 3219 EN ISO 3219
Method Density at 25°C Color Viscosity at 25°C Viscosity at 15°C	mPa mPa	ı*s ı*s	985 ± honey 285 ± 550 ±	A ± 15 color ± 50 ± 60	Bi 1092 bro 14	I. B 2 ± 15 own ± 3 ± 5	Mix 15	ture A+B 50 ± 30 70 ± 40	Determination DIN 12791 EN ISO 3219 EN ISO 3219
Method Density at 25°C Color Viscosity at 25°C Viscosity at 15°C Viscosity at 6°C	mPa mPa	ı*s ı*s ı*s	985 ± honey 285 ± 550 ±	A 15 color 50 60 100	Bi 1092 bro 14	I. B 2 ± 15 own ± 3 ± 5	Mix 15	ture A+B 50 ± 30 70 ± 40 90 ± 50	Determinatio
Method Density at 25°C Color Viscosity at 25°C Viscosity at 15°C Viscosity at 6°C Mechanical Data:	mPa mPa mPa	ı*s ı*s ı*s	985 ± honey 285 ± 550 ± 995 ±	A ± 15 color ± 50 ± 60 100	Bi 1092 bro 14	1. B 2 ± 15 bwn ± 3 ± 5 ± 7	Mix 15	ture A+B 50 ± 30 70 ± 40 00 ± 50	Determination DIN 12791 EN ISO 3219 EN ISO 3219 EN ISO 3219
Method Density at 25°C Color Viscosity at 25°C Viscosity at 15°C Viscosity at 6°C Mechanical Data: Tensile strength	mPa mPa mPa	ı*s ı*s ı*s	985 ± honey 285 ± 550 ± 995 ± 0.58 ± 0	A ± 15 color ± 50 ± 60 100 0.12	Bi 1092 bro 14	1. B 2 ± 15 Dwn ± 3 ± 5 ± 7	Mix 15	ture A+B 50 ± 30 70 ± 40 90 ± 50 DIN (EN IS	Din 12791 EN ISO 3219 EN ISO 3219 EN ISO 3219 EN ISO 3219

COMPOSITION AND PROPERTIES:

Components BETTOPUR CRACKSEAL, Component A consists of polyester polyols and additives. BETTOPUR CRACKSEAL, Component B is a modified isocyanate compound.

AREAS OF USE

- · Filling the water coming from the negative direction,
- · Crack injection and gap filling,
- Deep injections
- Filling dilatation joints,
- · Cold joints,
- It is used for sealing, insulating or flexibly bonding cracks, joints and other gaps in concrete, brick or natural stone structures. It can also be injected into joints with injection hoses.

ADVANTAGES

- · Solvent Free
- · Low viscosity
- · High penetration capability and adhesion strength
- · High stretch capability up to the breaking point



SURFACE PREPARATION

The surface should be cleaned using pressurized water if possible, removing oil, grease, fuel and paraffin waste, as well as mold release agents, cement residues, chips, loose particles and cured membranes. Large holes or gaps can be filled with polyurethane sealant.

APPLICATION METHOD

Generally, the resin is injected through a hole plug (paker) and through a hole that enters the crack to be repaired. The process is continued until the resin overflows through the observation holes. **BETTOPUR CRACKSEAL** can be applied in two different ways:

Two-component application: The resin components can be applied independently using a two-component pump, again in a 1:1 ratio. The components are mixed in a reusable static mixer before being injected into the hole. The 1:1 volumetric mixing ratio should be checked before injection.

Flow rates greater than 0.3 l/min can be applied if the ambient temperature and the temperature of the system components (pump, pipe, joint...) are between 5°C and 30°C and the product temperature is greater than 15°C.

In cases where the water flow cannot be stopped with **BETTOPUR CRACKSEAL**, **BETTOPUR STOP W** is first injected until the water flow is stopped. After that, **BETTOPUR CRACKSEAL** injection is continued using a different (paker).

System:

The resin mixture penetrates into the cracks to be sealed. Due to the hydrophobic (water repellent) character of the resin, if there is water in the crack, a significant part of it is pushed out of the environment. A small part of it forms a fine void foaming reaction with the resin.

End product: After more than 10 hours, the resin takes solid form. Final hardening takes several days. The set resin is elastic and extensible even in the direction parallel to the bonding surface.

BETTOPUR CRACKSEAL

17 kg White

ABETTOPUR CRACKSEAL B

Tin19 kg Black Tin

SHELF LIFE

6 months from the date of manufacture under appropriate storage conditions.

STORAGE CONDITIONS

At least 6 months after the date of delivery, provided that it is at a temperature between 10°C and 30°C and in a dry environment. If these periods are exceeded, it is recommended that the product is checked for suitability by **Bet- ton Yapı Kimyasalları San ve Tic. Ltd.** Şti for conformity. Local legislation regarding storage must be complied with.

SECURITY MEASURES

During application, work clothes, protective gloves, goggles and masks should be worn in accordance with the Occupational Health and Safety Rules. Due to the irritating effects of uncured materials, the components should not come into contact with the skin and eyes, in case of contact, wash immediately with plenty of water and soap, and in case of ingestion, consult a doctor immediately. Food and beverage materials should not be brought into the application areas. Keep out of the reach of children.

