

Contite® PUE200/201

A POLYURETHANE RESIN FOR ELASTIC SEALING OF BOTH DRY & WET CRACKS

DESCRIPTION

Contite PUE200/201 is a two component, solvent and phthalate free, polyurethane system consisting of a resin component **Contite PUE200** and special hardener **Contite PU201**.

The system is ideal for the elastic sealing of cracks in concrete structures as well as areas suffering from water leakage.

USES & ADVANTAGES

Contite PUE200/201 can be used directly into dry & moist cracks, if water leakage must be stopped first.

Contite PUE200/201 can be used in combination with **Contite PU100/101** which will first stop the water and or react the water away after which the injection of **Contite PUE200/201** can be carried out.

Typical areas of use are :-

- The elastic sealing of cracks in concrete structures such as basements, tunnels etc.
- The sealing of cracks and joints and leaks in other structures.
- As injection material for injection hoses.

Advantages include:-

- Good adhesion on wet as well as on dry concrete.
- Low viscosity, therefore a good penetration into the crack.
- Can be applied as one or as two component.
- The curing time can be adjusted relatively simply.
- The cured material is resistant to hydrolysis.
- Cracks can be injected with water before sealing. The advantage is adequate cleaning and a good control of the flow characteristics.

PROPERTIES

	Contite PUE200	Contite PU201
Colour :	Yellow	Dark brown
SG :	1.04-1.06	1.22-1.24
(ASTM D1475)		
Viscosity at 25°C, mPa.s :	30-60	170-270
(ASTM D2196)		
(at 77°F, lb/ft.s)	0.02-0.04	0.11-0.18)
Pot life at 25°C (77°F):	60-70 min	
Gel time at 25°C (77°F):	70-90 min	

APPLICATION

Although **Contite PUE200/201** is a two component systems it can be used as a one component. Used as One Component System

Step 1 : Add the required amount of **Contite PU201** to the **Contite PUE200**.

Step 2 : Mix it thoroughly until a homogeneous mixture has been obtained, which will be the case after about 2 minutes.

Step 3 : The mix can be pumped by means of a single component injection pump. Keep in mind that the gel time of the system is 70-90 minutes at 25°C (77°F).

After the injection the pump should be cleaned with **Contite PU Purge** (these product may not contain any water).

In the case of a two component application it is possible to speed up the reacting time to obtain faster curing. For this purpose Cormix supplies a special catalyst, **Contite Cat 42**, to be added to the **Contite PUE200**.

The following table clearly indicates the influence of adding **Contite Cat 42** to the **Contite PUE200** on the gel time of the mixture.

Dosage of Contite Cat42 in % by weight of Contite PUE200	Material Temperature		
	5°C (41°F)	21°C (70°F)	30°C (86°F)
	Reaction Time		
0.00%	~ 90 min	~ 90 min	~ 80 min
0.20%	~ 45 min	~ 40 min	~ 29 min
0.40%	~ 35 min	~ 30 min	~ 18 min
0.60%	~ 25 min	~ 25 min	~ 12 min
0.80%	~ 16 min	~ 15 min	~ 9 min
1.00%	~ 12 min	~ 11min	~ 6 min

Note : The given data are laboratory parameters and may deviate depending on the object and conditions on site.

* To prevent condensation on the liquids at the start of work, the temperature of the components should be at least as high as the ambient temperature.

** All opened drums of **Contite PUE200/201** should be purged with dry nitrogen and capped when not in use.

MIX RATIO

Contite PUE 200 : Contite PU 201 = 5 : 3 by weight.
Contite PUE 200 : Contite PU 201 = 2 : 1 by volume.

MECHANICAL & PHYSICAL PROPERTIES OF THE END PRODUCT

	According to Unit	Value
Elongation at break :	ASTM D638 %	> 20
Shore D hardness :	ASTM D2240	20-30

PACKAGING

16 kg (35 lb) set;
Contite PUE200 = 10 kg (22 lb)
Contite PU201= 6 kg (13 lb) in a can.
 Other packing units on request.

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STORAGE & SHELF LIFE

Contite PUE200/201 are very stable when properly handled.

To avoid problems, it is very important to understand that these materials are both temperature and moisture sensitive. Therefore, materials should be stored in an area with temperatures not exceeding 35°C (95°F) or not lower than 5°C (41°F), the shelf life is approximately 12 months in unopened drums.

All part used drums should be covered by nitrogen and re-sealed to prevent the ingress of moisture.

HEALTH & SAFETY

Ordinary hygienic principles, such as washing the compounds from the hands before eating or smoking should be observed. Hands should be washed with a waterless cleaner followed by soap and water. Avoid breathing of vapours, prolonged contact with the skin, contact with open breaks in the skin, and ingestion. Use Contite PUE200/201 with adequate ventilation.

TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001 : 2015 verified by TUV Nord.

ISO 14001 : 2015 verified by Lloyd's Register International.

DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc. Cormix does not take responsibility nor need to defend others testing that does not achieve the published data. The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product.

Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advise offered.

CONTACT DETAILS

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