

Contite® PUE 200/E201

A POLYURETHANE RESIN FOR ELASTIC SEALING OF DRY CRACKS

DESCRIPTION

Contite PUE 200/E201 is a two component, solvent and phthalate free, polyurethane system consisting of a resin component **Contite PUE 200** and special hardener **Contite PUE 201**.

The system is ideal for the elastic sealing of cracks in concrete structures.

USES & ADVANTAGES

Contite PUE 200/E201 can be used directly into dry cracks, if water leakage must be stopped first.

Contite PUE 200/E201 can be used in combination with **Contite PUE 100/E101** which will first stop the water and or react the water away after which the injection of **Contite PUE 200/E201** 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 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.

PROPERTIES

	Contite PUE 200	Contite PUE 201
Colour :	yellow	brown
SG :	1.04-1.06	1.12-1.14
(ASTM D1475)		
Viscosity at 25°C, mPa.s:	30-60	10-30
(ASTM D2196)		
(at 77°F, lb/ft.s)	0.02-0.04	0.054-0.094)
Pot life at 25°C (77°F) :		60-70 min.
Gel time at 25°C (77°F) :		70-90 min.

APPLICATION

Although **Contite PUE 200/E201** is a two component system it can be used as a one component system.

Used as One Component System.

Step 1 : Add the required amount of **Contite PUE 201** to the **Contite PUE 200**.

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**.

In the case of a two component application it is possible to speed up the reaction time to obtain faster curing. For this purpose Cormix supplies a special catalyst, **Contite Cat 42**, to be added to the **Contite PUE 200**.

The following table clearly indicates the influence of adding **Contite Cat 42** to the **Contite PUE 200** on the gel time of the mixture.

(**Contite Cat 42** is a special catalyst for accelerating the reaction time of **Contite PUE 200/E201**)

Dosage of Contite Cat 42 in % by weight of Contite PUE200	Material Temperature		
	5°C (41°F)	21°C (70°F)	30°C (86°F)
	Reaction Time		
0%	~ 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 PUE 200/E201** should be capped when not in use.

MIX RATIO

Contite PUE 200 : **Contite PUE 201** = 1 : 1 by weight or

Contite PUE 200 : **Contite PUE 201** = 1.08 : 1 by volume

MECHANICAL & PHYSICAL PROPERTIES OF THE END PRODUCT

According to Unit Value

Elongation at break :	60-80 %	ASTM D638
Shore hardness :	20-30 D	ASTM D2240

PACKAGING

20 kg (44 lb) set; **Contite PUE 200** 10 kg (22 lb) & **Contite PUE 201** 10 kg (22 lb) in steel packaging. Other packing units available upon request.

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STORAGE & SHELF LIFE

Contite PUE200/E201 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 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 PUE 200/E201 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: 2008 verified by TUV Nord.



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Concrete Injection : Injection
Products for Ductile Filling of
Crack, Voids and Interstices in
Concrete
U(D2) W(2)(1)(5/35)(0)

Adherence and Elongation: >0.6N/mm²
Capacity of Products for
Ductile Injection
Workability:
Crack width: ≥ 0.2 mm
Moisture level of crack: Dry
Suitable for use: 5°C to 35°C
Compatibility with Concrete : Deformation
loss < 20%

CONTACT DETAILS

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