

# Contite® PUE200/E201



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

### DESCRIPTION

**Contite PUE200/E201** is a two component, solvent and phthalate free, polyurethane system consisting of a resin component **Contite PUE200** and special hardener **Contite PUE201**.

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/E201** can be used directly into dry & moist cracks, if water leakage must be stopped first.

**Contite PUE200/E201** can be used in combination with **Contite PUE100/E101** which will first stop the water and or react the water away after which the injection of **Contite PUE200/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:-

- 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 PUE201
<b>Colour :</b>	yellow	brown
<b>SG : (ASTM D1475)</b>	1.04-1.06	1.12-1.14
<b>Viscosity at 25°C, mPa.s :</b> (ASTM D2196)	30-60	10-30
(at 77°F, lb/ft.s)	0.02-0.04	0.054-0.094
<b>Pot life at 25°C (77°F) :</b>	60-70 min.	
<b>Gel time at 25°C (77°F) :</b>	70-90 min.	

### APPLICATION

Although **Contite PUE200/E201** 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 PUE201** 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 Cat42**, to be added to the **Contite PUE200**.

The following table clearly indicates the influence of adding **Contite Cat42** 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%	~ 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	~ 11 min	~ 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/E201** should be purged with dry nitrogen and capped when not in use.

### MIX RATIO

**Contite PUE200 : Contite PUE201 = 1 : 1** by weight or

**Contite PUE200 : Contite PUE201 = 1 : 1** by volume

### MECHANICAL & PHYSICAL PROPERTIES OF THE END PRODUCT

	According to	Unit	Value
<b>Elongation at break</b>	:ASTM D638	%	60-80
<b>Shore hardness</b>	: ASTM D2240		20-30 D

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### PACKAGING

20 kg (44 lb) set; **Contite PUE200** 10 kg (22 lb) & **Contite PUE201** 10 kg (22 lb) in steel packaging.  
Other packing units available upon request.

### 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 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/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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Minburi Bangkok 10510  
09  
1012-CPD-0105  
**EN 1504-5**  
**Crack-filling materials**  
**for concrete**  
**U(D1)W(2)(1/2/3)(5/30)**

Elongation:	>10%
Watertightness at	2x10 <sup>5</sup> Pa
Workability:	
• Crack width:	≥ 0.2 mm
• Moisture state of crack:	Wet, damp, dry.
Corrosion behavior:	Deemed to have no corrosive effect.
Dangerous substances:	Comply with 5.4

### CONTACT DETAILS

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