Contite® PUE 200/E201

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.

Complies to EN1504 Part 9 and EN1504 Part 5 Class (D).

- Principle 1 : Protection Against Ingress (PI).
- Method 1.5 - Filling Cracks.

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.
- 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

Colour :
Contite PUE 200 : yellow
Contite PUE 201 : brown

SG :
ASTM D1475 : 1.04-1.06
ASTM D2196 : 1.12-1.14

Viscosity at 25°C, mPa.s : 30-60
ASTM D2196 : 10-30

(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.

Elongation at break : 60-80 %
ASTM D638

Shore D hardness : 20-30
ASTM D2240

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)

<table>
<thead>
<tr>
<th>Dosage of Contite Cat 42 in % by weight of Contite PUE200</th>
<th>Material Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5°C (41°F)</td>
</tr>
<tr>
<td></td>
<td>Reaction Time</td>
</tr>
<tr>
<td>0%</td>
<td>~ 90 min</td>
</tr>
<tr>
<td>0.20%</td>
<td>~ 45 min</td>
</tr>
<tr>
<td>0.40%</td>
<td>~ 35 min</td>
</tr>
<tr>
<td>0.60%</td>
<td>~ 25 min</td>
</tr>
<tr>
<td>0.80%</td>
<td>~ 18 min</td>
</tr>
<tr>
<td>1.00%</td>
<td>~ 12 min</td>
</tr>
</tbody>
</table>

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

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.
A POLYURETHANE RESIN FOR ELASTIC SEALING OF DRY CRACKS

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 Departments available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

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 product’s 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.

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