Corroprufe DPC
Polymer modified fibre felt damp proof course

Product Features

Corroprufe DPC is a high performance polymer modified bitumen damp proof course manufactured to comply with properties of BS 6398 (formerly BS 743) by using state-of-the-art technology. The nature of technology involving processing polymers at high temperature affords protection to the elastomer in the blend, which imparts high flexibility even at low and high temperatures and provides a total impermeable barrier against ingress of water.

Corroprufe DPC is available in sanded version also.

Typical Uses

Corroprufe DPC provides a barrier to the passage of moisture or water from the exterior to the interior or from the ground to the structure. It is highly robust to prevent damage during use in all operating conditions and will accommodate substantial movement in excess of the crushing strength of the wall loading. The material has been specifically designed to prevent the membrane, extruding under the imposed loading conditions and will prevent ingress of water vapour during the service life of the structure. The special chemical modification of bitumen gives flexibility at low temperatures, and high puncture and tear resistance. It can be used in horizontal and vertical applications.

Technical Data

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Standards</th>
<th>Typical Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll length</td>
<td>UEAtc</td>
<td>: 5 m &amp; 10 m</td>
</tr>
<tr>
<td>Roll width</td>
<td>UEAtc</td>
<td>: 100 mm, 200 mm, 300 mm &amp; 1m</td>
</tr>
<tr>
<td>Thickness</td>
<td>UEAtc</td>
<td>: 1.0 mm, 1.5 mm, 3 mm, 4 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>UEAtc</td>
<td>: 0.75 - 4.50 kg/m²</td>
</tr>
<tr>
<td>Carrier (glass fibre) weight</td>
<td>UEAtc</td>
<td>: 50 g/m²</td>
</tr>
<tr>
<td>Coating mixture type</td>
<td></td>
<td>: Polymer Modified Asphalt</td>
</tr>
<tr>
<td>Softening point (R&amp;B) - Compound</td>
<td>ASTM D 36</td>
<td>: 120°C</td>
</tr>
<tr>
<td>Penetration @ 25°C - Compound</td>
<td>ASTM D 5</td>
<td>: 15 - 25 mm</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>UEAtc</td>
<td>: 2.5 - 5.5 %</td>
</tr>
<tr>
<td>Tensile strength (L/T)</td>
<td>UEAtc</td>
<td>: 350 / 250 (3 &amp; 4mm) N/5 cm</td>
</tr>
<tr>
<td>Tear resistance (L/T)</td>
<td>UEAtc</td>
<td>: 60 / 80 (3 &amp; 4mm) N</td>
</tr>
<tr>
<td>Puncture resistance (3 &amp; 4 mm)</td>
<td>UEAtc</td>
<td>: Not perforated at 7 kg, 10mm ball</td>
</tr>
<tr>
<td>Static: L₂</td>
<td></td>
<td>: Not perforated at 9 joules, 25-30mm</td>
</tr>
<tr>
<td>Dynamic : I₁</td>
<td></td>
<td>: No Flow</td>
</tr>
<tr>
<td>Heat resistance @ 100°C</td>
<td>UEAtc</td>
<td>: No Flow</td>
</tr>
<tr>
<td>Water permeability @ 5 Bar</td>
<td>BSEN12390</td>
<td>: Nil (3 &amp; 4mm)</td>
</tr>
<tr>
<td>Service temperature</td>
<td></td>
<td>: -2 to +80 °C</td>
</tr>
</tbody>
</table>

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

Concrete

No special preparation is required before the application of Corroprufe DPC, however ensure concrete surfaces are clean and free from contamination such as dust, oil, grease, organic growth and release agents.

Priming

Priming is not required however please ensure the substrate is clean, dry, sound and free from contamination.

Application

Damp proof courses must extend through the full thickness of the brick work / block work and project beyond the external face by at least 5mm.

Damp proof courses must be laid on an even bed of mortar and any lap joints in DPC should have an overlap of 10mm and completely sealed.

Hot weather conditions

For application above 40°C we recommend adopting the following guidelines:

Store materials in a cool preferably air conditioned environment.

Minimise exposure to direct sunlight.

Avoid application during the hottest time of day.

Keep membrane rolls stored upright particularly if not boxed.

Cleaning

Clean tools and equipment immediately after use with Corroclean.

Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendations.

Avoid application if the work area may be subject to the onset of rain or moving water.

All products should be used within the pot life. Materials not used within the specified time should be discarded.
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If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

Estimating

**Corroprufe DPC** roll sizes: length 5 m and 10 m. Roll widths: 100 mm, 200 mm, 300 mm and 1 m. Coverage rate depends on roll length and width.

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Health & Safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

**Corroprufe DPC** has a maximum shelf life of 12 months from the date of manufacture.

**Corroprufe DPC** should be stored vertically and stacked not more than 2 rolls high.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.