Technical data

dichtol HM-RT
Product number #2510

Product description

Technology: Impregnating agent / sealer / sealant
Chemical basis: Epoxy (2-component)
Colour: Resin = transparent, hardener = yellowish
Application: Thermal coatings, welds, cast and sintered metal parts, rapid prototyping, circuit boards and electronic components

Dichtol HM-RT is used as impregnating agent for sealing porosities and cavities in metals, ceramics and many other materials. The product penetrates due to its high capillary action in the finest cracks and pores. Dichtol HM-RT hardens chemically at room temperature and seals the pores permanently.

Dichtol HM-RT has a solids content of 95% and has good chemical resistance to acids and alkalis. The product cures at room temperature and offers short processing times compared to dichtol HM #2407. The cured product is slightly flexible and can thus compensate strains and vibration.

Characteristics

• Good penetration
• Corrosion and weather resistant
• Electrically insulating
• Very high solids content (95%)
• Resistant to acids and alkalis
• Short pot life
• Good adhesion to metals and ceramics

Typical applications

• Capillary-active impregnation of micropores and hairline cracks
• Sealing of TS layers, especially suitable for increasing the electrical dielectric strength

Package sizes

Container number: # 02F 500g
Container number: # 02E 1kg
(Complete container consisting of resin and hardener)

Technical data

<table>
<thead>
<tr>
<th>Technical data</th>
<th>dichtol HM-RT #2510</th>
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</thead>
<tbody>
<tr>
<td>Material consumption [m²/l]</td>
<td>20</td>
</tr>
<tr>
<td>Recommended object temperature [°C]</td>
<td>20 - 60</td>
</tr>
<tr>
<td>Temperature resistance [°C]</td>
<td>200</td>
</tr>
<tr>
<td>Viscosity DIN4 cup, + 23°C ISO 2431 (4mm nozzle) [sec]</td>
<td>25</td>
</tr>
<tr>
<td>Exposure time [min]</td>
<td>4</td>
</tr>
<tr>
<td>Curing at 20°C</td>
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</tr>
<tr>
<td>Surface dry [h]</td>
<td>8</td>
</tr>
<tr>
<td>Complete curing [h]</td>
<td>24</td>
</tr>
<tr>
<td>Curing at 60°C</td>
<td></td>
</tr>
<tr>
<td>Surface dry [h]</td>
<td>1</td>
</tr>
<tr>
<td>Complete curing [h]</td>
<td>4</td>
</tr>
</tbody>
</table>

Storage / shelf life

Store product in its original, unopened container in a dry place. Storage instructions may be on the label of the product container. Optimum storage: 10°C to 24°C. Improper storage can negatively affect product properties.

Dichtol HM-RT is stable for 12 months when properly stored.

Mixing ratio

2510A (resin): 2510B (hardener) 75 : 25 % by weight
Preparation
Dirt residues, foreign bodies, grease and other substances must be completely removed from the pores to be sealed. For this, we recommend using DIAMANT Cleaner (#1417). If you are not sure whether the pores are completely cleaned by the above mentioned substances, please contact us.

Application
The object temperature should not exceed 60°C, otherwise the penetration of dichtol HM-RT can not be guaranteed 100%. Dichtol HM-RT must be heated to 40°C before use to achieve an ideal penetration behavior.

Important information
DIAMANT guarantees the product characteristics as long as they are stored and used according to the DIAMANT instructions. DIAMANT assumes no responsibility for the processing and use of the material.

If you have further questions, our technicians are at your disposal. Please read the safety data sheet before using the product and follow the safety instructions.