

## CALCEL ONE TECHNICAL DATA SHEET

# Cold-Mix Asphalt Polymer CALCEL ONE

Revision No. 4

Approved: 03/08/2016

Next revision: 03/08/2021

### Definition and general information

Cold-Mix asphalt composed of bitumen binder and polymer.

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| <b>Main characteristics:</b> | <ul style="list-style-type: none"> <li>• A storable, flexible asphalt thanks to the elastic characteristics of the binder.</li> <li>• It is an environmentally-friendly asphalt as it is not necessary to heat the materials during manufacture, therefore avoiding gas and smoke emissions.</li> <li>• Easy to use and handle at room temperature.</li> <li>• The specific composition of modified emulsion allows for: <ul style="list-style-type: none"> <li>○ Better asphalt cohesion.</li> <li>○ Increased resistance to asphalt ageing.</li> <li>○ Less thermal sensitivity.</li> <li>○ Its elasticity allows it to tolerate misshaping which would not be bearable when using conventional emulsions.</li> </ul> </li> </ul> |
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| <b>Use</b> | <p>It offers several possible uses, the main ones being:</p> <ul style="list-style-type: none"> <li>• Repairing of potholes.</li> <li>• Maintenance of roads, streets, pavements and driveways, etc.</li> <li>• Replacement as a wearing course during the repair of service trenches, etc.</li> <li>• Manual application of asphalts in confined spaces inaccessible to hot-mix asphalt machines.</li> </ul> |
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| <b>Presentation</b> | <ul style="list-style-type: none"> <li>• 25 kg bucket with a clean bag inside, sold on pallets of 40 or 48 units.</li> <li>• 20 kg bags sold on pallets of 60 units.</li> <li>• 1000 kg anti-humidity Big Bag.</li> <li>• Loose.</li> </ul> |
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## Technical data

|                             | Units              | Standard      | Characteristics |      |
|-----------------------------|--------------------|---------------|-----------------|------|
|                             |                    |               | Min.            | Max. |
| Composition                 |                    |               |                 |      |
| Ground aggregates           | %                  | EN 13043      | 92.0            | 94.0 |
| Emulsion                    | %                  | EN 13808      | 6.0             | 8.0  |
| Particle size               | mm                 | EN 12697 - 2  | 0               | 4/6  |
| Binding content             | %                  | EN 12697 - 1  | 6.0             | 8.0  |
| Density                     | Gr/cm <sup>3</sup> | EN 12697 - 6  | 1.7             | 2.0  |
|                             |                    |               |                 |      |
| Resistance to particle loss | %                  | EN 12697 - 17 | 0.0             | 6.0  |

## Application:

|                                   |                                                                                                                                                                                                                                                                                                        |
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| <b>Preparation of the support</b> | <ul style="list-style-type: none"> <li>The surface must be dry, clean, free of foreign bodies, grease, oil, previous coatings, etc.</li> <li>It is recommended to make a clean cut around the surface to be repaired.</li> <li>Remove frangible elements, elements with poor adhesion, etc.</li> </ul> |
| <b>Primer</b>                     | It is recommended to apply an adherence emulsion (CALCEL EMULSION), especially for applications where the thickness is relatively low (less than 3 cm).                                                                                                                                                |
| <b>Application of the product</b> | Pour the cold-mix directly onto the surface, filling it up to 2 cm above the road.                                                                                                                                                                                                                     |
| <b>Maximum thickness</b>          | The maximum recommended surface thickness to apply once the material is compacted will be approximately 4 to 5 cm.                                                                                                                                                                                     |
| <b>Compacting</b>                 | Compact the area evenly with a compacting roller, vibrating plate, manual compacting tool, etc., until the desired level is reached.                                                                                                                                                                   |
| <b>Drying</b>                     | <p>It is recommended to sprinkle the surface with sand or cement to prevent tyres from sticking to the product.</p> <p>The passing of traffic encourages compression and stability of the product.</p>                                                                                                 |
| <b>Restrictions</b>               | Do not apply the product when there is an imminent risk of rain or ice.                                                                                                                                                                                                                                |
| <b>Consumption</b>                | 25 kg/m <sup>2</sup> per 1.5 cm of thickness.                                                                                                                                                                                                                                                          |

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| Storage conditions | <ul style="list-style-type: none"><li>• Keep away from ice, permanent exposure to the sun and humidity.</li><li>• When stored in well-sealed, undamaged original buckets, the product lasts for one year from the date of production.</li><li>• Keep between +5°C and +30°C.</li></ul> |
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| Hardening | The passing of traffic encourages compression and stability of the product. |
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## Safety instructions

For information regarding safety in use, handling, storage and waste removal, users should consult the safety sheet which contains physical, environmental and toxicological questions, as well as other related questions.

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