

### Product Description

|                           |                                  |
|---------------------------|----------------------------------|
| Chemical characterization | Calcium magnesium orthophosphate |
|---------------------------|----------------------------------|

HEUCOPHOS® CMP is a zinc-free anticorrosive with universal applicability for long term protection.

### Technical Data

|  | Unit                 | Value       | Test Method              |
|--|----------------------|-------------|--------------------------|
| Calcium as CaO                               | [% ]                 | 43.5 - 47.5 | Complexometric titration |
| Magnesium as MgO                             | [% ]                 | 2.5 - 4.5   | ICP-OES                  |
| Phosphorous as PO <sub>4</sub> <sup>3-</sup> | [% ]                 | 43.0 - 47.0 | acc. to ISO 6745         |
| Water-soluble chloride                       | [% ]                 | max. 0.025  | acc. to ISO 787-13       |
| Water-soluble sulphate                       | [% ]                 | max. 0.05   | acc. to ISO 787-13       |
| Lead as Pb                                   | [ppm]                | max. 10     | ICP-OES                  |
| Cadmium as Cd                                | [ppm]                | max. 10     | ICP-OES                  |
| Loss on ignition 600 °C                      | [% ]                 | 5.5 - 7.5   | acc. to ISO 6745         |
| Conductivity                                 | [µS/cm]              | max. 1200   | acc. to ISO 787-14       |
| pH value                                     |                      | 5.5 - 7.5   | acc. to ISO 787-9        |
| Density                                      | [g/cm <sup>3</sup> ] | typ. 2.8    | acc. to ISO 787-10       |
| Bulk density                                 | [g/cm <sup>3</sup> ] | typ. 0.3    |                          |
| Tamped density                               | [g/cm <sup>3</sup> ] | typ. 0.5    | acc. to ISO 787-11       |
| Oil absorption                               | [g/100g]             | typ. 45     | acc. to ISO 787-5        |
| Sieve residue 32 µm                          | [% ]                 | max. 0.01   | acc. to ISO 787-7        |
| Median D50                                   | [µm]                 | max. 3.0    | acc. to ISO 13320        |

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Disclaimer - The information given in this data sheet is based on the present state of our knowledge & is intended as a general description of our products & their possible applications. Neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Because of the multitude of formulations, production & application conditions, all the above mentioned data have to be adjusted to the circumstances of the processor. As customer use lies beyond our knowledge and control, we cannot accept any liability relating to the use of our products in any particular application. In addition to that, the legal rights of third parties must always be considered. No liabilities, including those for patent rights, can be derived from this fact for individual cases. It cannot be ruled out that this product contains particles < 0.1 µm. Any user of this product is responsible for determining the suitability of Sudarshan's products for its particular application & to ensure that any proprietary rights & existing laws & legislation are observed.

| Application Profile           |     |   |   |
|-------------------------------|-----|---|---|
| Solvent based coatings        |     |   |   |
| Short and medium oil alkyds   | +++ |   |   |
| Long oil alkyds               | ++  |   |   |
| High solids alkyds            | +   | ✓ | ● |
| 2K Epoxies                    | +++ |   |   |
| Epoxy esters                  | +++ |   |   |
| High solids epoxies           | +   | ✓ | ● |
| 2K Polyurethanes              | ++  |   |   |
| High solids polyurethanes     | +   | ✓ |   |
| Moisture cured polyurethanes  | +   |   |   |
| Silicone resins               |     |   |   |
| Water based coatings          |     |   |   |
| Alkyd emulsions               | ++  | ✓ | ● |
| 2K Epoxies                    | ++  | ✓ |   |
| 1K Polyurethanes              | ++  | ✓ | ● |
| 2K Polyurethanes              | ++  | ✓ |   |
| Silicone resins               |     | ✓ |   |
| Acrylic and modified acrylics | ++  | ✓ | ● |
| Butadiens                     | +++ | ✓ |   |
| Specialty coatings            |     |   |   |
| Coil coatings                 |     |   |   |
| Aircraft primers              |     |   |   |
| Wash and shop primers         | ++  |   |   |
| Direct to metal               | ++  |   |   |
| UV cured systems              |     | ✓ |   |
| Powder coatings               | +   | ✓ |   |

+++ Excellent choice

++ Good choice

+ Possible choice

✓ Resin with low or no VOCs

● Additionally recommended in combination with HEUCORIN® RZ

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