# HEUCOPHOS® ZMP

in 1-part polyurethane

**Water based**

## Heubach formulation No. 199-02 08/96

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>PRODUCT</th>
<th>PRODUCER</th>
<th>PBW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane dispersion</td>
<td>Halwedrol OX 48/40 W</td>
<td>Hüttenes Albertus, today DSM</td>
<td>30.30</td>
</tr>
<tr>
<td>Dispersing agent</td>
<td>Coatex BR 3</td>
<td>Dimed, today Coatex</td>
<td>0.50</td>
</tr>
<tr>
<td>Defoamer</td>
<td>Byk-020</td>
<td>Byk-Chemie</td>
<td>0.30</td>
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</tbody>
</table>

**Premix.**

| Anticorrosive pigment     | HEUCOPHOS® ZMP              | Heubach                                       | 8.00 |
| Iron oxide black          | Bayferrox 318 M             | Bayer                                        | 0.50 |
| Titanium dioxide          | Kemira 650                  | Kemira                                       | 7.90 |
| Magnesium silicate        | Micro-Talc A.T. Extra       | Mondo Minerals                               | 7.30 |
| Calcium carbonate         | Millicarb                   | Omya                                         | 6.10 |
| PU-thickener              | Lanco Thix PUR 21           | Langer                                       | 0.12 |

**Grind 20 minutes at 4000 rpm.**

| Polyurethane dispersion   | Halwedrol OX 48/40 W        | Hüttenes Albertus, today DSM                  | 33.30|
| Wetting agent             | Byk-346                     | Byk-Chemie                                   | 0.50 |
| Glycol ether              | Butyl glycol                |                                               | 2.00 |
| Antiskinning agent        | Borchinox M 2               | Borchers                                     | 0.40 |
|                           | Water                       |                                               | 2.18 |
| Drier                     | Aquacat                     | Ultra Additives                              | 0.30 |
| Drier                     | Zircat                      | Ultra Additives                              | 0.30 |

*Add while mixing. Adjust pH 8.0 - 9.0 with ammonia, 25%.*

**SPECIFICATIONS**

| PVC in %                  | 27.0                        |
| Solids in %               | 56.2                        |
| Vol.-% Anticorrosive pigment reg. pigment/filler | 25.0 |
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