

**Technical data sheet**

**Product description**

**Operational sector :** Moisture regulating, water-based polyurethane-grafted acrylic paint for exterior and interior use. Mipa WBS PU-Buntlack allows high film build even on edges and ensures best weather protection. It is the perfect priming, intermediate and final coating for dimensionally stable wooden construction parts such as windows and doors. Also suitable for application on primed metallic substrates as well as for well adherent old layers of paint based on dispersions or synthetic resins.

**Features :**

- weather-resistant according to **DIN 18 363 VOB Teil C**
- no blocking, lightfast, moisture regulating
- water-repellent, non-saponifiable, excellent flow
- waterborne, low in odour, very good adhesion, permanently elastic
- complies with requirements of EN 71-3 (Migration of Certain Elements) and DIN 53 160 (colourfastness to saliva and sweat)
- free from fragrances and plasticiser according to 2009/48/EC (Toy Safety Directive)

**Content as per VdL Directive 01:** Polyurethane acrylate dispersion, titanium dioxide, water, glycols, additives, preservative  
(Association of German paint industry)

**Colour:** See Price List Mipa Decorative Products  
All paints intermixable in every desired ratio.

**Specification :**

|                  |                             |                   |
|------------------|-----------------------------|-------------------|
| gloss level:     | gloss, satin mat            | <b>DIN 67 530</b> |
| specific weight: | 1.3 - 1.4 g/cm <sup>3</sup> | <b>DIN 51 757</b> |
| viscosity:       | thixotropic                 | <b>DIN 53 019</b> |
| pH-value:        | approx. 8                   | <b>DIN 53 785</b> |

**Storage :** Storable at least 2 years in tightly closed original container. Keep it in dry and frost-free stores at a temperature between +5°C and maximum +30°C.

**VOC content:** EU limiting value for the product (cat. A/d): 130 g/l (2010);  
This product contains max. 100 g/l VOC [ 0.83 lbs/gal]

**Application**

**Processing conditions :** Do not apply at a substrate and ambient temperature below 5°C and above 35°C or if exposed to direct sunlight or high wind. Relative air humidity: max. 75%

**Substrate preparation :** The substrate must be clean, dry, solid and free from dust, oil, grease, wax and corrosive products. Remove damaged, non-adherent old paint layers. Slightly sand the adherent old paintworks and remove sanding dust afterwards. We recommend using only black or dark shades to coat tar or bitumen treated substrates.

**Old wood:** Weathered wood surfaces should be ground down to the sound wood. Afterwards follow the instructions as mentioned for new timber.

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**Application**

|   |   |                            |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
|---|---|----------------------------|-----------------------|---------------------|-----------|----------------|-----------------|-----------------|--|-----------------|-----------|-------------|----------------------------|------------|-----------|----------------|------------------|---|---|
| <b>New timber/ derived timber products:</b> | Remove exuded resins and pitch pockets. Maximum moisture content for softwood is 15% and for hardwood 12%. First, prime new timber in exterior use with Mipa WBS Holzschutzgrund Premium. To prevent brownish sap-stain on woods that are rich in active substances (or impregnated) when painted in lighter shades, insulate by applying an intermediate coat with Mipa WBS Isoliergrund.  |                            |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| <b>Metallic substrates :</b>                | Apply a priming coat of Mipa Allgrund (adhesion to iron, steel, zinc and aluminium). Overcoat after about 4 hours with Mipa WBS PU-Buntlack.  |                            |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| <b>Mineral substrates :</b>                 | Prime absorbent, powdery or chalking substrates with Mipa Tiefgrund LF. Apply an intermediate coat with Mipa WBS Buntlack thinned up to 10 % with water. Then topcoat with Mipa WBS PU-Buntlack undiluted.  |                            |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| <b>Application process :</b>                | <p>Stir well before use!</p> <p><b>Brushing and rolling:</b> Thin up to 10 % with water in case of absorbent substrates and higher temperatures.</p> <table border="0"> <tr> <td><b>Spraying:</b></td> <td><b>Airless/Airmix</b></td> <td><b>Spraying Air</b></td> </tr> <tr> <td>pressure:</td> <td>180 bar</td> <td>3 - 4 bar</td> </tr> <tr> <td>spraying angle:</td> <td colspan="2">50° (depends on the size of the surface)</td> </tr> <tr> <td>nozzle:</td> <td>0.13 mm</td> <td>1.8 mm</td> </tr> <tr> <td>viscosity:</td> <td>undiluted</td> <td>120 s 4 mm DIN</td> </tr> <tr> <td>number of coats:</td> <td>2</td> <td>2</td> </tr> </table> | <b>Spraying:</b>           | <b>Airless/Airmix</b> | <b>Spraying Air</b> | pressure: | 180 bar        | 3 - 4 bar       | spraying angle: | 50° (depends on the size of the surface) |                 | nozzle:   | 0.13 mm     | 1.8 mm                     | viscosity: | undiluted | 120 s 4 mm DIN | number of coats: | 2 | 2 |
| <b>Spraying:</b>                            | <b>Airless/Airmix</b>   | <b>Spraying Air</b>        |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| pressure:                                   | 180 bar   | 3 - 4 bar                  |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| spraying angle:                             | 50° (depends on the size of the surface)  |                            |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| nozzle:                                     | 0.13 mm   | 1.8 mm                     |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| viscosity:                                  | undiluted   | 120 s 4 mm DIN             |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| number of coats:                            | 2   | 2                          |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| <b>Drying times :</b>                       | <p>Allow 10 minutes flash-off time between the coats.</p> <p>Allow flash-off time of 10-15 minutes before drying at higher temperature. The drying depends strongly on film thickness, temperature and relative humidity.</p> <table border="0"> <tr> <td></td> <td style="text-align: center;"><u>20° C</u></td> <td style="text-align: center;"><u>60° C</u></td> </tr> <tr> <td>dust dry</td> <td>approx. 50 min</td> <td>approx. 20 min.</td> </tr> <tr> <td>set to touch</td> <td>approx. 1 ½ h</td> <td>approx. 45 min.</td> </tr> <tr> <td>tack-free</td> <td>approx. 4 h</td> <td>approx. 1½ h after cooling</td> </tr> </table>                |                            | <u>20° C</u>          | <u>60° C</u>        | dust dry  | approx. 50 min | approx. 20 min. | set to touch    | approx. 1 ½ h                            | approx. 45 min. | tack-free | approx. 4 h | approx. 1½ h after cooling |            |           |                |                  |   |   |
|   | <u>20° C</u>  | <u>60° C</u>               |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| dust dry                                    | approx. 50 min  | approx. 20 min.            |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| set to touch                                | approx. 1 ½ h   | approx. 45 min.            |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| tack-free                                   | approx. 4 h   | approx. 1½ h after cooling |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |
| <b>Spreading rate :</b>                     | Depends on substrate and application mode: approx. 8 - 10 m <sup>2</sup> /l per operation   |                            |                       |                     |           |                |                 |                 |  |                 |           |             |                            |            |           |                |                  |   |   |

**Special notes**

Please consider that Mipa WBS PU-Buntlack is not resistant to plasticizers. Regular and professional maintenance of the wood construction elements is essential for the serviceability and the durability of the wood construction elements. Instructions as well as the required maintenance schedule are given in BFS Merkblatt Nr. 18 (Federation Commission Colour and Material Assets Protection), App. C. When applying Airless, stir well and strain the colour.

**Safety instructions**

Mipa WBS PU-Buntlack is slightly alkaline. Protect eyes and sensitive skin against paint splashes. Wash away colour traces immediately with sufficient clear water. Consider general hygienic rules. Keep out of reach of children.

**Cleaning of tools**

Clean tools immediately after use with water. Remove overspray immediately with water. Dried films can be removed with stripping agent.

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