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### Modular Industrial Line Product name: polyurethane primer with matt APP Lack PUR DTM 30-220 Matt 4:1. APP No.: 0270138.

Two-component, matt, smooth polyurethane primer containing anti-corrosive pigments. Intended for the coating of commercial vehicles, tractor frames and semi-trailers, agricultural machinery, tanks, machine parts and steel constructions as a one-coat system giving a topcoat finish and corrosion protection. Highly resistant to mechanical influences, impacts and scratches, as well as chemical agents: acids and alkalis in low concentrations, grease and petrol.

| Product and accessories. | APP Lack PUR DTM 30-220 Matt,<br>APP Hardener PUR 30-710,<br>APP Thinner Universal 30-810.                                                                                                                                               |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basic ingredients.       | APP Lack PUR DTM 30-220 Matt – polyurethane binder, pigment<br>paste and additives,<br>APP Hardener PUR 30-710 – isocyanate hardener: fast/FAST,<br>standard/STANDARD and slow/SLOW<br>APP Thinner Universal 30-810 – universal thinner. |
| Colour.                  | Solid matt colours made according to formulas included in APP<br>Modular Industrial Line.<br>APP 0270138 – 20 + 80 (pigment paste + binder)                                                                                              |
| Surface texture.         | Smooth.                                                                                                                                                                                                                                  |
| Gloss.                   | approx. 10% for 60°, 20-25% for 85° – matt.                                                                                                                                                                                              |

Adjustment of matt by mixing APP Lack PUR DTM 30-220 Gloss with APP Lack PUR DTM 30-220 Matt.

| Lack PUR DTM<br>30-220 Gloss | Lack PUR DTM<br>30-220 Matt | Hardener<br>PUR 30-710 | Gloss 60° | Category   |
|------------------------------|-----------------------------|------------------------|-----------|------------|
| 100                          | 0                           | 4:1                    | > 90      | Gloss      |
| 75                           | 25                          | 4:1                    | 70-90     | Semi-Gloss |
| 50                           | 50                          | 4:1                    | 40-70     | Satin      |
| 25                           | 75                          | 4:1                    | 20-40     | Satin      |
| 0                            | 100                         | 4:1                    | < 20      | Matt       |

The degree of gloss/matt depends on the colour, amount of thinner, dry layer thickness, substrate and drying temperature.

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Specific weight.



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1.1 kg/L at 20°C

|                                                             | 5                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Binder solids content.                                      | 50-54% (by weight)<br>38-43% (by volume)                                                                                                                                                                                                                                                                                                                        |
| Solids content of ready-to-<br>use lacquer without thinner. | 48-55% (by weight)<br>37-42% (by volume)                                                                                                                                                                                                                                                                                                                        |
| Resistance.                                                 | <ul> <li>240 h for 60 μm of dry layer APP Lack PUR DTM 30-<br/>220 Matt – salt chamber test.</li> </ul>                                                                                                                                                                                                                                                         |
| Theoretical efficiency.                                     | <ul> <li>For binder:</li> <li>380-430 m²/L for 1 μm dry layer.</li> <li>For ready-to-use lacquer with 20% thinner:</li> <li>370-420 m²/L for 1 μm dry layer.</li> <li>Note!</li> <li>In practice, efficiency depends on factors, such as the shape of the object, the roughness of the substrate, the application method and the working conditions.</li> </ul> |
| Corrosion protection class according to ISO 12944.          | <ul> <li>For APP Lack PUR DTM 30-220 Matt:</li> <li>for corrosion class C3, durability H (15 to 25 years).</li> <li>for corrosion class C4, durability M (7 to 15 years).</li> </ul>                                                                                                                                                                            |
| Application.                                                | Intended for the coating of commercial vehicles, tractor frames<br>and semi-trailers, agricultural machinery, tanks, machine parts<br>and steel constructions as a one-coat system giving a topcoat<br>finish and corrosion protection.                                                                                                                         |
| <u>Advantages</u>                                           | <ul> <li>Direct adhesion to iron, stainless steel, galvanised steel, cast iron, aluminium, ABS and PVC, methacrylate and gelcoat.</li> <li>Matt, good mechanical resistance, hardness and elasticity.</li> <li>For the desired matt level, it is miscible with APP Lack PUR DTM 30-220 Gloss.</li> </ul>                                                        |

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# Modular Industrial Line Product name: polyurethane primer with matt APP Lack PUR DTM 30-220 Matt 4:1. APP No.: 0270138.

| <u>Advantages</u>      | <ul> <li>Coat with corrosion protection.</li> <li>Reaction to fire<br/>CLASS B-s1, d0 (UNE-EN 13501-1:2007+A1:2010)</li> <li>Easy preparation and application.</li> <li>As an alternative to classic primer + lacquer coatings,<br/>recommended for a wide range of industrial applications.</li> <li>It has a high chemical resistance to engine oil, diesel and<br/>H2SO4, NaOH and HCl solutions in low concentrations.</li> </ul>                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Substrate</u>       | <ul> <li>Direct adhesion to iron, stainless steel, galvanised steel, cast iron, aluminium, ABS and PVC, methacrylate and gelcoat.</li> <li>Pre-sanded factory coatings.</li> <li>Surfaces coated with: <ul> <li>epoxy primers, e.g. APP Primer EP 30-620, APP Grund EP, APP Grund EP Spray,</li> <li>polyurethane primers, e.g. APP Primer PUR 30-630,</li> <li>insulating and adhesive primers, e.g. APP Sealer PUR 30-640,</li> <li>acrylic primers, e.g. APP Acrylfiller 401, APP Acrylfiller 501, APP Acrylfiller Rapid, APP Acrylfiller Compact,</li> <li>single-component fillers, e.g. APP Primer Filler, APP Primer Filler Spray</li> <li>insulating and filling primer APP Smart Primer Spray,</li> <li>Adhesion primers, e.g. APP Kunststoff Primer.</li> </ul> </li> </ul> |
| Substrate preparation. | <ul> <li>Steel.</li> <li>P320-P360 mechanical grinding.</li> <li>Blasting treatment to a cleanliness grade of Sa 2½.</li> <li>Manual cleaning to St 3.</li> <li>The treated surface should be free of rust, scale, oil, grease, loose old coating, dust and other contaminants. It should have a uniform</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



Galvanised steel and aluminium.

metallic sheen.

- Dry sand with P320-P360 abrasive paper.
- Very gentle blasting treatment.

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## Modular Industrial Line Product name: polyurethane primer with matt APP Lack PUR DTM 30-220 Matt 4:1. APP No.: 0270138.

Existing finishes, polyester laminates, PVC and ABS.

Substrate preparation.



finish with sandpaper on a P500-P600 sponge.
Sand by hand with P600-P800 waterproof sandpaper.
Before spraying APP Lack PUR DTM 30-220 Matt, clean the lacquered surface of dust and degrease it with APP WB910, APP W911 or APP W900 remover using APP Premium cleaner.
For final dust removal, use APP SAS or APP SAS Aqua dustabsorbing cloths.

Dry sand with P320-P360 abrasive paper. Hand sanding

Optionally, dry sand the APP Primer EP 30-620 and APP Primer PUR 30-630 primers with P320 machine.

Application

Mixing ratios.



Volume mixing ratios for temperatures of 18-25°C:

|                                              | 0 1                                                                                                                       |  |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--|
| 4 volumes                                    | APP Lack PUR DTM 30-220 Matt                                                                                              |  |
| 1 volume                                     | <ul> <li>APP Hardener PUR 30-710:</li> <li>small surfaces – FAST/STANDARD,</li> <li>large surfaces – STANDARD.</li> </ul> |  |
| 10-15%<br>max 20%                            | APP Thinner Universal 30-810                                                                                              |  |
| Volume mixing ratios for temperatures >25°C: |                                                                                                                           |  |
| 4 volumes                                    | APP Lack PUR DTM 30-220 Matt                                                                                              |  |
| 1 volume                                     | <ul> <li>APP Hardener PUR 30-710:</li> <li>small surfaces – STANDARD,</li> <li>large surfaces – slow/SLOW.</li> </ul>     |  |
|                                              |                                                                                                                           |  |

10-15%APP Thinner Universal 30-810max 20%

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### Modular Industrial Line Product name: polyurethane primer with matt APP Lack PUR DTM 30-220 Matt 4:1. APP No.: 0270138.



Spray viscosity at +20°C:

20-23 s F/4.

Note! Use only APP Hardener PUR 30-710. Do not exceed the recommended hardener amount.

Application.



Apply with a spray gun equipped with a  $\emptyset 1.3 - \emptyset 1.5$  mm nozzle at an air pressure of 2.0 to 3.0 bar.



Number of layers: 2 x 1. Dry coating thickness: 60-70 μm.



Evaporation time between coats at +20°C: • 10 minutes.



Shelf life of ready-to-use paint mixture:8 hours.

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## **Modular Industrial Line** Product name: polyurethane primer with matt APP Lack PUR DTM 30-220 Matt 4:1. APP No.: 0270138.

### Drying.



| At +20°C:<br>Manipulability:<br>Cross-slip hardening: | 3-3 h and 30 min.<br>6-7 h and 30 min. |
|-------------------------------------------------------|----------------------------------------|
| At +60°C:<br>Cross-slip hardening:                    | 33 min.                                |
| IR radiator:                                          | 15-25 min.                             |
| The coating achieves its                              | full performance properties a          |

I ne coating achieves its tull performance properties after a seasoning period, i.e. after 10 to 15 days at 18-22°C.

Equipment cleaning.

Storage



Store in closed original packaging in a dry and well-ventilated room, at  $+5^{\circ}C$  to  $+30^{\circ}C$ .

Protect from frost and direct sunlight.

**OHS** regulations

VOC



For professional use only. See text on product labels or SDS. The user must comply with the OHS regulations in force in the country concerned. VOC in g/L: 2004/42/EC – II A (j) (500)

Permissible VOC content in g/L in the ready-to-use product: 500 g/L for APP Lack PUR DTM 30-220 Matt. Maximum VOC content in g/L in the ready-to-use product with 20% thinner addition: >500 g/L for APP Lack PUR DTM 30-220 Matt.

APP Sp. z o.o. 62-300 Września ul. Przemysłowa 10, tel. + 48 61 437 00 00.

Nitrocellulose, PUR or acrylic solvent.

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