



**PEKA  
CHEMIE**  
INDUSTRIAL COMPANY

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## Letter Of Transmittal

Date: Sept 27<sup>th</sup> 2018

Reference:

We are sending you:

- Letter     Attached     Order     Prints     Samples  
 Specifications     Others

| Item | Date                       | Revision | Description   |
|------|----------------------------|----------|---|
| 1    | Sept 27 <sup>th</sup> 2018 | Rev. 2   | PE 112A- a range of QualiCoat (class 1) approval Semi matt thermosetting powder coating based on polyester/TGIC |

Transmitted as filled below:

- For your use     For review     Approved as submitted  
 Other

Copy to: Research & Development

Signature:



Hamed Fakharizadeh  
Central Laboratory Manager



## TECHNICAL DATA SHEET

### PEKACOAT PE 112A

#### Product Description

PE 112A is a range of QualiCoat (class 1) approval Semi matt thermosetting powder coating based on polyester/TGIC. PE 112A designed for exterior application with very good weathering resistance.

- \* **Excellent surface leveling**
- \* **Good mechanical properties**
- \* **Very good weathering resistance**
- \* **Very Good corrosion resistance**

#### Uses

- \* **Aluminum profile**
- \* **Automotive wheels**
- \* **Air conditioners**
- \* **Lawn furniture**
- \* **Light fixtures**
- \* **Lawn and garden equipment**
- \* **Electrical enclosures**

#### Powder properties

|                             |                                     |                                   |
|-----------------------------|-------------------------------------|-----------------------------------|
| <b>Specific gravity</b>     | <b>ASTM D5965</b>                   | 1.2-1.7 gr/cm <sup>3</sup>        |
| <b>Color and pattern</b>    | <b>RAL K7</b>                       | A wide range of color and pattern |
| <b>Particle Size</b>        | <b>laser particle size analyzer</b> | Suitable for electrostatic spray  |
| <b>Shelf life</b>           | -                                   | 12 months                         |
| <b>Theoretical Coverage</b> | <b>at 60 µm film thickness</b>      | 9.8 –13.8 m <sup>2</sup> /Kg      |

#### Film properties

|                               |                                   |                                  |
|-------------------------------|-----------------------------------|----------------------------------|
| <b>Film Thickness</b>         | <b>ISO 2360</b>                   | 60-80 µm                         |
| <b>Gloss</b>                  | <b>ISO 2813 (°60)</b>             | 30 ≤ ≤70                         |
| <b>Buchholz Hardness</b>      | <b>ISO 2518</b>                   | ≥ 80                             |
| <b>Direct Impact</b>          | <b>ASTM D2794</b>                 | 25 N.m                           |
| <b>Reverse Impact</b>         | <b>ASTM D2794</b>                 | 25 N.m                           |
| <b>Adhesion</b>               | <b>ISO 2409 (2 mm Crosshatch)</b> | Gt 0                             |
| <b>Cupping test</b>           | <b>ISO 1520</b>                   | ≥ 5 mm                           |
| <b>Salt Spray</b>             | <b>ASTM B117 (1000 hr )</b>       | Blistering < 1mm                 |
| <b>Constant Humidity</b>      | <b>ISO 6270-1 (1000 hr )</b>      | Blistering < 1mm                 |
| <b>Accelerated weathering</b> | <b>ISO 11341 (1000 hr)</b>        | Gloss retention ≥ 50 %           |
| <b>Bend test</b>              | <b>ISO 1519</b>                   | ≤ 4mm                            |
| <b>Kesternich-test</b>        | <b>ISO 3231 (30 cycles)</b>       | No infiltration exceeding 1 mm   |
| <b>Machu test</b>             | <b>Qualicoat 2.11</b>             | No infiltration exceeding 0.5 mm |
| <b>Mortar resistance</b>      | <b>ASTM D3260</b>                 | No defects no detachment         |

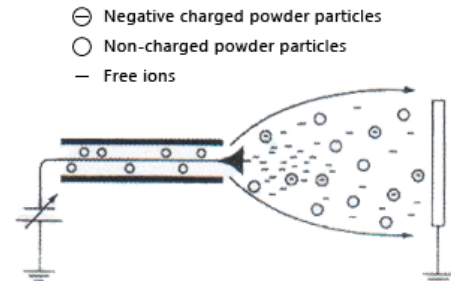


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### PEKACOAT PE 112A

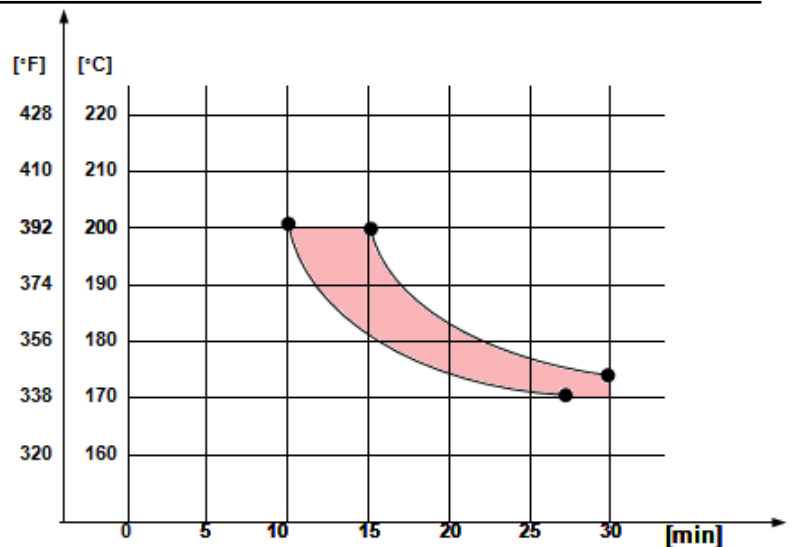
#### Application Method

PEKACOAT PE 112A can be applied by electrostatic spray equipment which can provide a negative tension of 70-100 Kv (corona) and tribo guns (If the seventh character of code is T).



#### Cure Schedule

**Metal T (°C)/ Time (min)**  
200(°C)/ 10 (min)  
190(°C)/ 13 (min)  
180(°C)/ 15 (min)



#### Storage

The recommended optimum conditions for powder storage are:

- Temperature < 25°C
- Relative humidity 50 - 65%
- Away from direct sunlight

#### Health and Safety

##### Safety Phrases:

Do not breathe dust. Avoid contact with skin and eyes. Wear suitable protective clothing and eye/face protection.

##### Skin Contact:

If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

##### Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.