Quality Comparison

In case written in bold font it means existing shortcomings in quality.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Acrylic Latex Waterproof</th>
<th>Epoxi Flooring</th>
<th>Polyurethane Waterproofing</th>
<th>SI11</th>
<th>SI12</th>
<th>SI13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy to Apply</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Apply Floor</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td></td>
<td></td>
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<tr>
<td>Apply Walls</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Apply Rooftop</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Apply Concrete</td>
<td>Yes</td>
<td>Only Floor</td>
<td>Yes</td>
<td>No</td>
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<td>Yes</td>
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<tr>
<td>Apply Steel</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Apply Wood</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
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<td>Apply Gypsum</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Apply Plastics/Epoxy</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>Yes</td>
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<td>Primer</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td></td>
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<tr>
<td>Moisture Sensitivity if Applicable</td>
<td>Yes</td>
<td>Grinding</td>
<td>Poor</td>
<td>Poor</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>Adhesion Strength</td>
<td>Yes</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>Cross Cut Test</td>
<td>Poor</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>Abrasion Resistance</td>
<td>Poor</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>UV Radiation Resistance</td>
<td>Average</td>
<td>Poor</td>
<td>Poor</td>
<td>Poor</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>Artificial Atmospheric Agents</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Colour Stability</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>Chemical Resistance</td>
<td>Poor</td>
<td>Average</td>
<td>Average</td>
<td>Poor</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Severe Chemical Attack</td>
<td>Average</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>Temperature Resistance</td>
<td>91°C</td>
<td>177°C</td>
<td>263°C</td>
<td>600°C</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>Thermal Shock Resistance</td>
<td>Good</td>
<td>Poor</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Carbon Dioxide Permeability</td>
<td>Poor</td>
<td>Average</td>
<td>3%</td>
<td>0%</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Permeability water vapour</td>
<td>Average</td>
<td>Good</td>
<td>Average</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>Water Absorption Resistance</td>
<td>1%</td>
<td>2%</td>
<td>1%</td>
<td>2%</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Aging at 70°C</td>
<td>Poor</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Adhesion Strenght Pull-off</td>
<td>Average</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Anti Paint Cracking</td>
<td>Poor</td>
<td>Average</td>
<td>Average</td>
<td>Good</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Impact Resistance</td>
<td>Average</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Anti-Corrosion</td>
<td>Poor</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Anti-Graffiti</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Anti-Termite (Wood)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Anti-Algea</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Anti-Pollution</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Hydrophobic Self Cleaning</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Easy to Clean</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Lifetime Years</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>20+</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
## Retail Price Comparison

### Use of Lifetime Types of Sealants, Coatings and Cost

<table>
<thead>
<tr>
<th>Use</th>
<th>Lifetime Type</th>
<th>Material/m²</th>
<th>Installation/m²</th>
<th>Total Cost /m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roof</td>
<td>3-5</td>
<td>Silicone</td>
<td>$10.75 - $16.15</td>
<td>$5.50 - $10.75</td>
</tr>
<tr>
<td>Roof</td>
<td>15</td>
<td>Bitumen</td>
<td>$8.05 - $16.15</td>
<td>$5.50 - $10.75</td>
</tr>
<tr>
<td>Roof</td>
<td>10</td>
<td>Polyurethane</td>
<td>$5.50 - $21.50</td>
<td>$16.15 - $32.30</td>
</tr>
<tr>
<td>Roof</td>
<td>20+</td>
<td>EPDM</td>
<td>$16.15 - $26.90</td>
<td>$2.75 - $10.75</td>
</tr>
<tr>
<td>Roof</td>
<td>20+</td>
<td>SI11</td>
<td>$5.75 - $5.75</td>
<td>$5.50 - $10.75</td>
</tr>
<tr>
<td>Floor</td>
<td>15</td>
<td>Epoxi</td>
<td>$21.50 - $53.80</td>
<td>$5.50 - $10.75</td>
</tr>
<tr>
<td>Floor</td>
<td>20+</td>
<td>SI11</td>
<td>$5.75 - $5.75</td>
<td>$5.50 - $10.75</td>
</tr>
<tr>
<td>Wall</td>
<td>5</td>
<td>Acrylic Latex</td>
<td>$2.15 - $8.05</td>
<td>$5.50 - $10.75</td>
</tr>
<tr>
<td>Wall</td>
<td>10+5</td>
<td>SI12 Matte</td>
<td>$5.00 - $5.00 *</td>
<td>$7.00 - $12.50</td>
</tr>
<tr>
<td>Wall</td>
<td>20+5</td>
<td>SI12 Matte</td>
<td>$7.85 - $7.85 *</td>
<td>$7.00 - $12.50</td>
</tr>
<tr>
<td>Wall</td>
<td>20</td>
<td>SI13 Colour</td>
<td>$7.65 - $7.65</td>
<td>$5.50 - $10.75</td>
</tr>
</tbody>
</table>

* includes Acrylic Latex $2.15

---

or 20+ Year Protected and Self Cleaning?
There is no other option than NANO-CERAMIC®

Property Year build 2008, Location North Jakarta (sea side) (paint Acrilic....)

All exterior painted surfaces are affected by pollution and by corrosion. Due to paint failures “cracking” the salty sea rain even got free access towards the concrete steel construction.

Ancol Mainson is build 10 years ago and it is actually too late to apply one layer of new paint on top, there needs to be done a lot of grinding even towards the concrete substrate to make properly installed new paintwork possible.

The problem is that the repaint should be done every 5 years to avoid status like this and repaints should be repeated every 5 years to come. As is a huge and costly job to make a repaints on high buildings like this.

Capitalization Rate

As property owner you know that if you want to cash-out, investors will look to your capitalization rate (Value Property : Netto Income).

If you’re planning to list your property on the market, one of the easiest and most cost-effective ways that can help to increase its value is also one of most the simplest: paint.

“It’s the least expensive investment for the biggest return,” says Jennie Norris, chair-woman of the International Association of Home Staging Professionals and her own Denver-based home staging business, Sensational Homes.

Painting the interior results in a 107 percent on the return on investment (ROI), and painting the exterior leads to a 55 percent ROI, according to a HomeGain 2012 Top DIY Home Improvements for Seller survey.

Conclusion

It clearly shows that there is no other way then to choose right from the beginning for a NANO-CERAMIC® Permanent Coating System or Permanent Colour System.
Please view all 12 pages from this Independent Test Report via our Website
10) Impact resistance

<table>
<thead>
<tr>
<th>Number of measurement</th>
<th>Impact resistance - the mass of the falling weight 1000 g</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Height 60 cm</td>
</tr>
<tr>
<td>1</td>
<td>pass</td>
</tr>
<tr>
<td>2</td>
<td>pass</td>
</tr>
<tr>
<td>3</td>
<td>pass</td>
</tr>
<tr>
<td>4</td>
<td>pass</td>
</tr>
<tr>
<td>5</td>
<td>pass</td>
</tr>
</tbody>
</table>

Impact resistance: 6.13 Nm

11) Adhesion strength by pull-off test

<table>
<thead>
<tr>
<th>Number of measurement</th>
<th>Adhesion strength by pull-off (N/mm²)</th>
<th>Type of Failure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3.4</td>
<td>A 100 %</td>
</tr>
<tr>
<td>2</td>
<td>3.1</td>
<td>A 100 %</td>
</tr>
<tr>
<td>3</td>
<td>2.8</td>
<td>A 100 %</td>
</tr>
<tr>
<td>4</td>
<td>2.9</td>
<td>A 100 %</td>
</tr>
<tr>
<td>5</td>
<td>3.5</td>
<td>A 100 %</td>
</tr>
</tbody>
</table>

Average: 3.2
Extended uncertainty U: 0.3

Note: A - cohesion failure in concrete substrate

12) Behaviour after artificial atmospheric agents

Visual assessment after 2000 hours of UV irradiation and humidity

<table>
<thead>
<tr>
<th>Test specimen No.</th>
<th>Degree of blistering STN EN ISO 4628-2</th>
<th>Degree of cracking STN EN ISO 4628-4</th>
<th>Degree of flaking STN EN ISO 4628-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 (50)</td>
<td>0 (50)</td>
<td>0 (50)</td>
</tr>
<tr>
<td>2</td>
<td>0 (50)</td>
<td>0 (50)</td>
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</tr>
<tr>
<td>3</td>
<td>0 (50)</td>
<td>0 (50)</td>
<td>0 (50)</td>
</tr>
</tbody>
</table>

Date of report: 06th February 2018
Prepared by: Ing. Erika Halčinová
Authorized by: Ing. Pavel Kazár
Head of Laboratory Branch

Notes:
- Unless the Test Laboratory makes the sampling, data on the manufacturer, its manufacturing plant and about the sampling are presented according to information provided by the client.
- Testing was carried out according to the Operational procedure No. PP-007 of the Test laboratory in compliance with the listed test procedure.
- The given extended uncertainty U is based on the standard uncertainty multiplied by the coverage factor k = 2, that in case of the normal distribution provides the reliability in the order of 95%.
- Presented results are relevant to the product sample only.
- This report shall not be reproduced except in full without written approval of the Test Laboratory.

End of test report

Test report No. R0-14-0025
Do you know?
That our coatings are made of pure silica sand which is the most common element on earth?