INDOOR AIR: THE SILENT KILLER
20th AUG 2013

DID YOU KNOW

» Indoor air quality can be 5 TIMES worse than outdoor air quality?
» Formaldehyde exposure is the leading cause of symptoms of sicknesses in buildings?

Research findings by Nippon Paint tell us how IAQ affects health and productivity in the workplace.
Health symptom due to poor IAQ

Watery Eyes

Irritation in nose & throat

Coughing & Wheezing

Migraine

Affect the health of people and will lead to productivity of employees and also the comfort level of the occupants
Nippon Paint & role in improving Indoor Air Quality
About Us

- Established in 1881, Japan
- Expanded in Msia on 21 December 1967

We developed paint in these 5 categories

- Decorative/Architectural coatings
- Automotive Finish
- Industrial Use coatings
- Protective coatings
- Marine paints
How we improve IAQ via Decorative Paints?
At Nippon Paint...
Promote **HEALTHY LIVING**, & Save the ENVIRONMENT; Be **GREEN**.

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**FROST & SULLIVAN**

**BEST PRACTICES AWARD**

**GREEN CHOICE**
SAFER FOR YOUR HEALTH

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**FROST & SULLIVAN**

**BEST PRACTICES AWARD**

**Green Excellence Award**

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**FROST & SULLIVAN**

**BEST PRACTICES AWARD**

Asia Pacific Green Excellence Award for Product Innovation in Decorative Coatings

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Paint company gets recognition for its best practices

NIKTON Paint has been selected as the recipient of Frost & Sullivan’s Best Practices Award for Malaysia paints and coating Company Of The Year and Asia Pacific decorative coating Company Of The Year.

The award is presented each year to the company who exhibits excellence in growth strategy and implementation, degree of innovation with new products and technologies, leadership in customer value and market penetration.

“This selected company is perceived to exhibit outstanding management and consistent growth.

The company must offer high-quality products for services and have positive social and economic impact on local and national communities.

The company should also reflect an overall and proven excellence in taking advantage of market changes by capturing and solidifying market presence, or through execution of innovative strategies within the existing competitive landscape,” exclaimed Frost & Sullivan’s Asia Pacific Best Practices and Events director Cindy Gan.

“We are honoured by this recognition from Frost & Sullivan,” said Nippon Paint Malaysia managing director Yaw Seng Heng.

In addition to the Best Practices Awards, the company’s products received two prestigious awards by Frost & Sullivan – the Green Excellence Award in recognition of its achievement in promoting and improving sustainability within the paint industry, and the product innovation award in Air Cleaning Coatings by the inaugural 2011 Frost & Sullivan Asia Pacific Green Excellence Awards.

If you have a business-related event such as product launches, new appointments and store openings to highlight, e-mail us at metro@thesinar.com.my
Words to look out for in a green paint..

- Non added Lead and Mercury
- Water-based
- APEO Free
- Low VOC
VOLATILE ORGANIC COMPOUNDS (VOCs)

- VOCs are harmful chemicals that vaporise into gases at room temperature – contributing to air pollution and various health problems.

- Most paint smell from conventional paint are contributed by VOCs, which may affect people who are chemical sensitive, causing eye, nose & throat irritations, asthma exacerbation, skin allergies and respiratory problems.

- In the Singapore Green Label criteria, paint must not contain more than:

<table>
<thead>
<tr>
<th>Finishing</th>
<th>Interior Max VOC (g/litre)</th>
<th>Exterior Max VOC (g/litre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matt</td>
<td>25</td>
<td>50</td>
</tr>
<tr>
<td>Low Sheen</td>
<td>30</td>
<td>50</td>
</tr>
<tr>
<td>Semi Gloss</td>
<td>40</td>
<td>65</td>
</tr>
<tr>
<td>Gloss</td>
<td>70</td>
<td>70</td>
</tr>
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</table>
Green Choice Products near zero VOC emission after painting

- Contains near ZERO VOC or ultra low VOC.
- All Nippon Paint premium range have no added lead and mercury and heavy metals.
1st to launch a Near Zero VOC paint

THE PAINT WITH ALMOST NO ODOUR DURING & AFTER PAINTING

- Near zero VOC & almost no odour
- Ammonia free & non added heavy metal
- Covers hairline cracks
- Anti-bacterial
- Washable & long lasting
- Suitable for ceilings

From SETSCO report, VOC level for Nippon Odour~less Premium All-in-1: 0.1g/liter
Green Choice Interior Decorative Paints

- Egg-shell: Absorbs formaldehyde & refreshes the air
  VOC: 0.75 g/l

- Matt: Washable, Anti-Bacterial, Cover hairline
  VOC: less than 1 g/l

- Low Sheen: Repel stains
  VOC: less than 1 g/l

- Low Sheen: Washable & Anti-Bacterial
  VOC: 0.41 g/l

- Mid Sheen: High Gloss
  VOC: 0.39 g/l

- Matt: Washable
  VOC: 0.2 g/l

- Matt: For ceiling
  VOC: 0.15 g/l
TOTAL GREEN PAINTING SYSTEM including wall sealer

Masonry Surface

For Interior Use

- Nippon Odour-less Wall Sealer: From SETSCO report, VOC level 0.20g/liter

For Interior & Exterior Use

- Nippon Vinilex 5200 Wall Sealer: From SETSCO report, VOC level 0.84g/liter

- Nippon Vinilex 5500 Wall Sealer: From SETSCO report, VOC level 1.03g/liter
TOTAL GREEN PAINTING SYSTEM

Wood & Metal Surface

For Wood

From SETSCO report, VOC level for Nippon Hydro-Matt: 11.94g/liter

From SETSCO report, VOC level for Nippon Hydro-Gloss: 13.05g/liter
Staying forefront & proactively in new product innovation.

Not just making paint that is low in VOC, NOW absorbs formaldehyde
NIPPO Odour-Less
AirCare
Blobby™
Absorbs formaldehyde and refreshes the air*
- Near zero VOC & odour
- Anti-bacterial
- Superior washability & scrub resistance
- Eggshell finish
- For interior walls
- Hence Reduce Sick Building Syndrome

* Converts formaldehyde to water vapour

From SETSCO report, VOC level for Nippon Odour-less AirCare: 0.75g/liter
It is formulated Anti Formaldehyde with Active Carbon Technology, the paint film will continuously absorb harmful formaldehyde from the air into water vapour and therefore, create a safer environment for the consumers.

* Converts formaldehyde to water vapour
WHAT IS FORMALDEHYDE?

Formaldehyde is a colourless gas with strong pungent odour, can be easily dissolved in water, alcohol or ether etc. It has been confirmed as carcinogen by World Health Organization.

It’s also one of the large family of chemical compounds called Volatile Organic Compounds (VOC).

It can be detected by many individuals at 0.024 mg/m³
Formaldehyde is a very common indoor air pollutant. Because there are many sources, formaldehyde is found in virtually all homes and buildings.

New homes are more likely to contain high levels of formaldehyde. Older homes typically have less formaldehyde in the air.
HOW DOES ODOUR-LESS AIRCARE WORK?

1. Formaldehyde is absorbed into AirCare
   Formaldehid diserap ke dalam AirCare
   甲醛被AirCare吸收

2. Anti Formaldehyde with Active Carbon Technology
   Wall coated with AirCare
   Dinding dicat dengan AirCare
   髮上AirCare的墙面

3. AirCare releases water vapour
   AirCare melepaskan vap air
   AirCare釋放水蒸气
FORMALDEHYDE TEST SOLUTION

Equal amount of formaldehyde test solution dropped onto test panel.

Hours later, AirCare has absorbed formaldehyde dosage. For Brand X, no reaction shown.
Conclusion:
As shown above, AirCare continuously absorbs formaldehyde. Brand X does not display any reaction or absorption over 24 hours.
OTHER SUPERIOR BENEFITS

**Strong Scrub Resistance**
After 10,000 scrubs, Brand X has been scrubbed away while AirCare paint film remains undamaged.

**Superior Washability**
After one wipe, household stains such as pencil, lipstick, crayon, juice and sauce are cleaned-off on AirCare.

**High Fungus Resistance**
In prolonged tests, Brand X still shows fungal growth while AirCare shows none.
Convention paint can offers thousands of colours
But it is insufficient to meet the current design needs... therefore other materials are being used.

But these materials can be costly, difficult to install and repair and very costly to be repaired and changed.
Trend has moved beyond colours

Wall colour

Feature wall

Wall paper

Wall art/sticker
To combine the design offering, textured and yet provide the flexibility of using paint

*Creating masterpieces*

*In every surface with just a coat of*

![Momento Special Effect Paint](image)
NIPPON MOMENTO Special Effects Paint

• New range that offers different textured and effects to “glamourized” your walls
MOMENTO TEXTURED SERIES

Every stroke, a special texture...

The Textured Paint series is a premium line of opaque Momento Special Effect Paint that can be applied in lieu of traditional wall paint, transforming ordinary interiors into enchanting works of art.
Currently, available in 4 variants

<table>
<thead>
<tr>
<th>Variant</th>
<th>Description</th>
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<tbody>
<tr>
<td>Sparkle Pearl</td>
<td>Textured finish of luminous colours with pearlescent sheen</td>
</tr>
<tr>
<td>Sparkle Silver</td>
<td>Textured semi-metallic silver finish with shimmering colours bathed in silver light</td>
</tr>
<tr>
<td>Sparkle Gold</td>
<td>Textured semi-metallic gold finish with majestic colour dusted in a golden shine</td>
</tr>
<tr>
<td>Elegant</td>
<td>Matte textured finish, with rustic colours of rich vibrancy</td>
</tr>
</tbody>
</table>
Showcasing your masterpiece, make your walls fascinating

Total 174 colours
MOMENTO ENHANCER SERIES

A touch of texture, a glaze of creativity

The Enhancer series is a special line of semi-transparent Momento Special Effect Paint that can be applied onto any wall, glazed over any existing wall colour.
Currently, available in 2 variants

**Cloud**
- Transform favourite coloured walls into glowing masterpieces with exclusive cloudy glazes of golden shine or pearlescent sheen.

**Frost**
- Glaze over favourite coloured walls to create serene winter masterpieces of frost texture, bathed in a snow, gold or pearl lustre.
How it works

Base Colour : Blue Brush 2141P  
Glazed over with Snow Frost

• The colour combination is limitless as final effects of the Enhancer Series depends on the base, chosen Momento Enhancer Series variants and colour.
CLOUD PEARL
CLOUD GOLD
SNOW FROST
PEARL FROST
GOLD FROST
Accessorizing your wall with Total 174 colours
WHY NIPPON MOMENTO?
Allow design flexibility
Allow design flexibility
Can be applied in bathrooms

- Just need to add a coat of Nippon Fibercote to provide water-resistant protection
Much more durable and compatible to our climate than wall coverings
Easy application
Green Choice Paint

The complete range of health and eco-friendly paints

Certificate No.: 032065
Environmental Friendly
Low VOC Paint
MOMENTO ENHANCER SERIES
‘ACCESSORIZING’ YOUR WALL EFFORTLESSLY...
INSULCOAT

- Non-added lead and mercury
- Improves cooling efficiencies & heat insulation
- Covers hairline cracks with elastomeric property
- Water-based

Coming Soon

The Paint Expert
1-800-88-2663 www.nipponpaint.com.my

GREEN CHOICE
SAFER FOR YOUR HEALTH
Insulcoat Reduces Temperature

- Non-added lead and mercury
- Improves cooling efficiencies & heat insulation
- Covers hairline cracks with elastomeric property
- Water-based
FLEXISEAL

- Excellent water resistance
- Highly flexible filler for cracks filling
- Excellent crack-bridging
- Excellent elastomeric properties

The Paint Expert
1-800-88-2933 www.nipponpaint.com.my

GREEN CHOICE
SAFER FOR YOUR HEALTH
Flexiseal Elastomeric Membrane – 2 in 1 sealer & filler

✓ Excellent water resistance
✓ Highly flexible filter for cracks filling
✓ Excellent crack-bridging
✓ Excellent elastomeric properties

Testing video
Thank You
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Organised by:

Partner with: