

Omyasmart is Multifunctional

Added Values

- pH stabilization
- Improvements of shelf-life
- Allows biocide-free / biocide-low formulations
- Contributes to hazard-free labelling
- Avoids constant adjustment of your formulas
- Keeps surfaces clean for longer
- Odorless, no discoloration, zero emissions
- Compliance with the criteria for awarding the most important Eco labels
- Suitable for allergy sufferers



Omyasmart NG helps people of all ages to take care of their skin and prevent skin allergy.

Omyasmart Technology

Mineral solutions for water-based products

Omyasmart products are multifunctional neutralizing agents developed for long-term stability in water-based applications. Omyasmart Technology combines elevated pH, pH buffering, and salt technology to offer a three-pillar approach to improving the long-term stability of water-based systems.

Omyasmart is a powder, odorless and emission-free so that inhalation of toxic gases during application can be successfully avoided. This contributes to healthy living. Due to the longer shelf life of e.g. paints or adhesives with Omyasmart, the economy at the customer's site can be improved and the disposal of contaminated material minimized, thus Omyasmart also contributes to the environmental sustainability.

Products containing Omyasmart save time, effort, and unnecessary work required for reformulation because they are not subject to changes in CLP/GHS regulations.



Omyasmart is a registered trademark of Omya AG in the European Union and multiple other countries.

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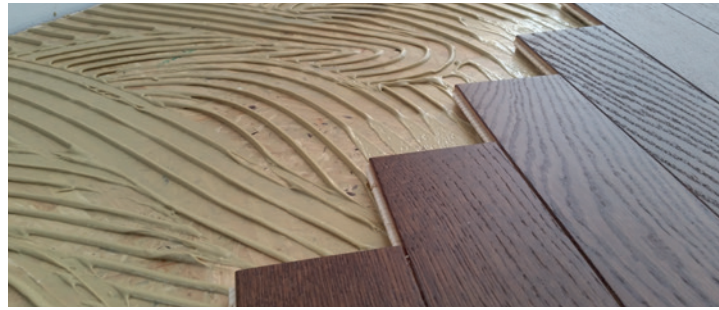
The next Generation

Omyasmart Technology

Innovation in stabilizing water-based systems



THINKING OF TOMORROW



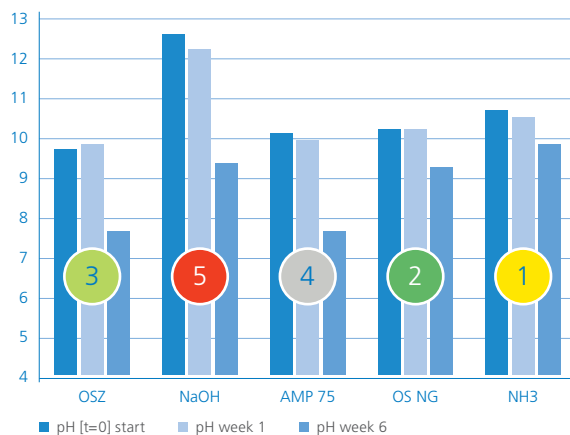
Longevity due to pH-Control

Omyasmart Next Generation (OSNG) is a multifunctional neutralizing agent based on 100% mineral sources and provides an excellent pH buffer effect.

pH and salt content are physical parameters known to influence microbial growth. Microbes prefer to grow in a specific environment which they obtain by lowering the pH and limiting the salt concentration.

In the test below, acid has been added once a week for six weeks in VAE paints.

pH-Buffer Effect of Neutralizing Agents

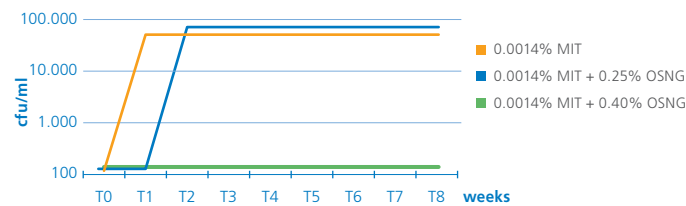


OSNG is the right choice if one wants to avoid using very caustic substances with strong odors or VOCs.

Synergetic Enhancer Effect

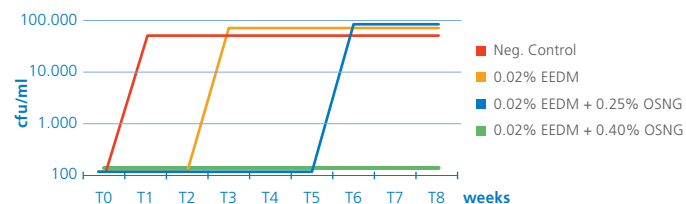
With Omyasmart it is possible to comply with the limited thresholds of biocides based on the Classification, Labelling and Packaging Regulation (CLP/ GHS). Producers of waterbased products can avoid skin-sensitizing classifications like H317 or EUH 208 on their products, without having to accept restrictions on storage stability.

Paints* with MIT & OSNG



14 ppm MIT alone does not perform. With addition of 0.4% OSNG the paint remains stable over the entire test period.

Paints* with EDDM** & OSNG



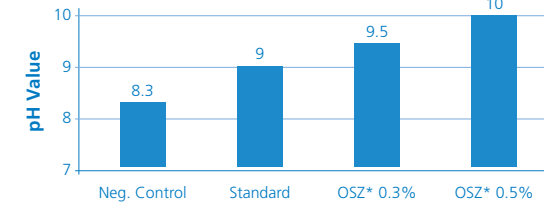
0.4% OSNG enhances the efficacy of EDDM by 6 inoculation weeks.

* Styrene Acrylic ** (ethylenedioxy)dimethanol

Smart pH-Effect on Surfaces

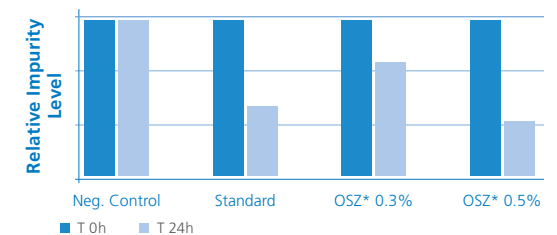
Omyasmart can be used for bio-stabilized surfaces on painted walls for example in public facilities, hospitals or wherever high hygiene standards are required. Omyasmart contributes to having a clean surface due to the combined pH and salt effect. The diagram below represents the pH Value on painted surfaces, that can be found in wet conditions with high humidity.

pH Value on painted surface after 24 h



Due to the elevated pH Value in paints containing Omyasmart, the biostability is better than the negative control without Omyasmart.

Biostability Test over 24 h



Reduction measured according to standard JIS Z 2801 after 24 h of contact time

* Omyasmart