

Method of Nano Maintenance SB series

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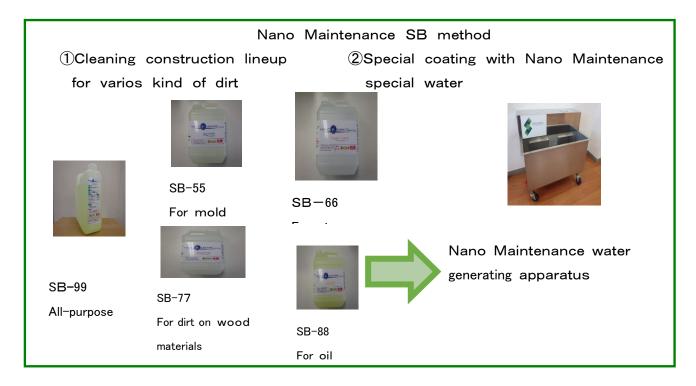
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Nano Maintenance is System Brain Corporation's trademark registration product.

1. What is Nano Maintenance?

Nano Maintenance SB method is a breakthrough cleaning and coating method by using our own newly developed special detergents. We call them SB detergents, which enabled thereduc tion of cost and maintenance compared with conventional detergents. This is done by breaking down mold, oil, tar, lye, dirt, metalic rust and such by a special glass coating of Nano Mainten ance water.



2.Nano Maintenance SB method and its effect

- ① It breaks down the mold and the dirt inside and outside the building that provides a bacteria-proof and mold-proof coating. A beautiful appearance will persist.
- ② It infiltrates SB detergents into the inside of materials such as a wall or wood and removes mold by the roots. It is not a method of scraping with brushes after using anti-mold agent or bleach.
- ③ It restores the original state without damaging a building or building materials or without discoloring the paint.
- 4 By coating with Nano Maintenance glass water after the above cleaning procedure, it enables a beautiful appearance and ease of cleaning. Thus, maintenance costs are reduced.
- ⑤ Not only are they specific detergents, but also the usage follows general home detergents at the same time. Therefore the disposal of waste fluid is simple and they are safe for not only the user but also the environment.

3. The truth about mold

Mold affects us and our homes in a variety of ways. Microbes like mold have been deeply involved with the production of medicines, fermented food, and so on. It is a fact, however, that microbes can be detrimental to our way of life. They cannot be left uncontrolled. For that reason, we aim to develop the detergents to neutralize these detrimental effects.

Effects of mold on food

Microbes propagate in food, and the ingredients change by such propagation. Food loses its original property, including color, taste, and texture. It gives off a bad odor and can even produce poison. The poison which mold produces needs careful handling since it causes mycotoxicosis (mycotoxin).

Effects of mold on buildings

Microbes such as mold cause deterioration, degradation, decomposition, and eventually collapse. We call such a phenomenon as 'disaster by microbes'. As for the interior, mold occurs in every possible place such as a bathroom, a plastered wall, backside of a closet, inside a chest, a cloth, and so on. Microbes like mold occur and breed in any and all materials causing damage.

Effects of mold on human beings

(Fungal infections)

There are two major types of infection.

One is superficial such as athlete's foot or ringworm that mold penetrates the skin and causes a lesion, and the other is a deep seated thing caused by breathing in the spores.

(Fungus can cause aspergillosis, candidosis, and cryptosis)

Other subcategories of infections include:

(Opportunistic infection)

It means that the person gets sick by the weak poison and bacteria which have multiplied taking advantage of the immunodeficiency.

(Nosocomial infection)

It generally means to be infected during hospitalization.

(MRSA and so on)

These are kinds of fungal allergies. A spore and metabolism of the aerial fungus becomes the allergen.

This can lead to diseases such as bronchial asthma, hives, nasal inflammation, conjunctivitis, atopic dermatitis, the gastroenteritis.

(Fungal poisoning)

Mold multiplies in food and food poisoning can occur. Some are carcinogenic.

4. List of SB series detergents

	Name	Liquid	Utility
1	SB-55		As the sanitization cleaner
	(For mold)	Alkalinity	The mold removal of the overall building inside and outside
			The alga removal
			Nicotine dirt of the cigarette on the cloth and paintwork
2	SB-66		Cleaning the rust stain, rain stain, soot, and lye of the efflorescence tree,
	(For dirt on stones)	Acidity	and ceramics of the restroom
			Scale spots on the glass and the mirror
3	SB-77		The mold removal of wooden part
	(For dirt on	Alkalinity	Cleaning of sunburned wooden part
	Wood materials)		Cleaning of moss on the pine, the Japanese cypress, and so on
4	SB-88		Oil dirt (such as on the ventilation fan hood) of the overall building
	(For oil spots)	Alkalinity	Heavy oil, mineral oil dirt (shutter oil)
			Dirt (shoes, bicycle trace) of a sash, the floor
5	SB-99	Alkalinity	Overall oil dirt, the mold, overall nicotine dirt, and sash dirt
	(All-purpose cleaner)		As the sanitization cleaner for a tent or a cloth

5. About safety of the detergents

(1) Nano Maintenance SB-55 (For mold)

The sodium hypochlorite as the main ingredient is the same as the food additives which are generally used for the sterilization of the washing such as vegetables and the moist hand towel. Since the sodium hydroxide (food additives) in a solution as an assistant is used; there is no worry such as the acridity. The outbreak of the next mold will be prolonged because it is a method to dismantle mold from the sclerotium, unlike the fungicide by major manufacturer which bleaches or removes only a spore or a spawn of mold.

(2) Nano Maintenance SB-66 (For the dirt on stones)

Though the sodium hydrogen fluoride as the main ingredient, being in the hydrogen fluoride single substance, is regarded as one of the deleterious substances. When it is used at high concentrations, however, there may be undeniable influence to drainage, animals, and plants because of the nature of acid.

(3) Nano Maintenance SB-77 (For dirt on wood materials)

The main ingredient of SB-77 is sodium hypochlorite. There is no safety problem alike SB-55.

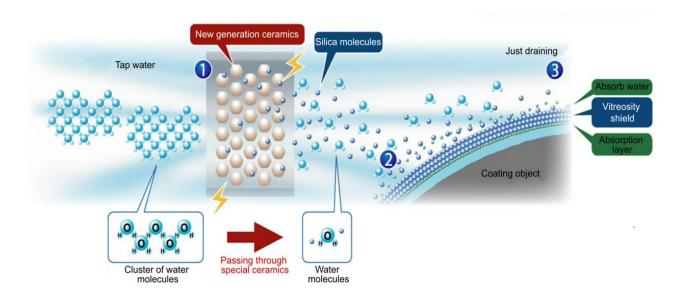
(4) Nano Maintenance SB-88 (For oil spots)

Those such used for hand-washing in food factories are also used for surfactants of the main ingredient of SB-88. Because they use neither phosphorus nor oil, the effects on the human body or drainage would be little.

(5) Nano Maintenance SB-99 (All-purpose cleaner)

The main ingredient and safety of SB-99 are equivalent to those of SB-55 and of SB-88.

- **As a result of toxicity test (such as heavy metals) against each of these detergents, any poisons were not detected.
- With regard to the toxicity of the main ingredient, it is written in MSDS.
- 6. Principle of Nano Maintenance coating
- (1) The Nano Maintenance coating is the coating technology of the glass film formation by spraying the ceramic ionized water where the molecules of the high purity quartz system glass permeate into the space between molecules on a nano level by passing water through the device including the natural ore (special ceramic).
- (2) The glass molecules of the nano meter level react to the target molecules and combine with the target molecule, thanks to "ERP technology" which combines the target molecules by electrochemical reaction and forms a mineral film. It leads to a glassy-specific nature.



- 7. Nano Maintenance water generating apparatus (Model: SB-118)
 - (1) Nano Maintenance coating water is made by Nano Maintenance water generating apparatus.



- (2) Nano Maintenance coating water has an effect for twenty minutes from being taken out of the generating apparatus. Therefore, while using circulating water, the water keeps its effect but the water which had been taken out and was left more than twenty minutes will return to normal.
- 8. Operational procedures
 - (1) Put tap water into the main body of the machine.
- (2) Store water until the red dotted line
- * Don't forget to turn off the switch before turning the power on.





(3) Wait for five minutes at least after the power is turned off. Then silica water is generated.



- (4) After construction, turn the power off and drain.
- (5) When ceramics become their life (50,000L), the internal cylinder exchange is needed. Please don't hesitate to ask our company.
- 9. Standard operational procedures and precautions
 - (1) Follow the standard operational procedures of washing by Nano Maintenance SB method.
 - (2) Don't forget to wear rubber gloves, protective glasses, and protective masks for construction.
- (Though our detergents have a little influence on a human body as they are at the same level as general detergents, they may develop in inflammation of the skin by individual difference.

- (3) Never mix SB-66 of being acidity with other detergents. In addition, as for the next using other detergents, don't apply it before they completely dry up. Similarly, use the tools such as brushes properly for each kind of detergents in order to prevent contamination. (the alkaline detergent + acidic detergent = chlorine gas ⇒toxic)
- (4) After washing, prepare Nano Maintenance coating water according to procedure and apply it to all over the construction surface thoroughly.
- (5) Dry Nano Maintenance coating water on the construction surface. Repeat application and dry a few times.

10. Tools for washing



(1) Tools

- ① Bucket ② Brush (chemical fiber 100%) ③ Scraper ④ Brush (chemical fiber 100%)
- ⑤ Scraper ⑥ Sponge ⑦ Melamine sponge ⑧ Protective glasses ⑨ Protective mask
- 1 Scotch-Brite 1 Gloves 2 Rubber gloves 3 Rag
- (2) Recommended construction equipment

Masking sheet / Masking tape / Masker / Sprayer / High-pressure washing machine

- (3) Precautions
 - 1 Use micro fiber 100% brushes.
 - 2 Prepare brushes and buckets according to each detergent separately.

(If you use the brush which was used for alkaline solutions for acidic solutions, there may happen a chemical reaction.)

11. Examples of Nano Maintenance SB method

① SB-55 for removal of mold

[Before]

[After]

• Wall Removing mold and bacteria





• Wall (cloth) Removing mold and bacteria





• Jiputon ceiling Removing mold and bacteria





[Before]

[After]

Outdoor unit Removing oil spots and bacteria, Washing





Only applying and washing with water were performed. No scrubbing was done in this instance.

• The exhaust pipe of the ventilation fan Removing oil spots



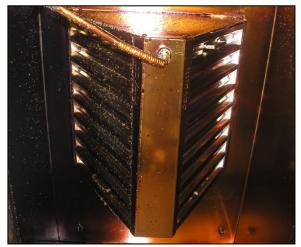


•Fryer Removing scorching and bacteria





• Grease filter Removing oil spots and bacteria





• Iron plate of okonomiyaki Removing oil spots and bacteria





③SB-66 For the dirt on stones

[Before]

[After]

Bathtub tile Removing rust and bacteria, washing





[Before]

• Bathtub tile Removing rust and bacteria, washing





• Granite Removing chalk and bacteria, washing





Disinfection tank Removing bacteria, washing





[Before]

• Mirror Removing ring-shaped spots and bacteria, washing





• Urinal Removing urinary stone and bacteria, washing









[Before]

• Tile outer wall Removing bacteria, washing



[After]



• Tile outer wall Removing efflorescence, washing





③ SB-77 For the dirt on wood materials
[Before]

• Gates Removing bacteria, washing

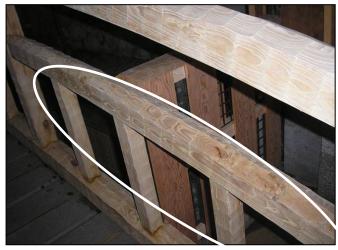


[After]



• Handrail Removing mold and bacteria, washing





• Cypress tub Removing mold and bacteria, washing





⑤SB-99 All-purpose

[Before]

Range hood internal Removing oil and bacteria, washing







• Outer wall panel surface Removing dirt and bacteria, washing





• Major department stores, escalator belt Removing bacteria, washing

