

BANSEI 万生

Ingredients are botanical components, mainly based on Japanese knotweed, persimmon leaves, Artemisia.
Rinsing water becomes feed for fish and also cleanses the river. This is the real nature!

Corporate philosophy and environment-friendliness

Corporate philosophy and environment-friendliness.

Nature is everything and we make an every effort to make the most of it before considering our own convenience.

If we do, everything will be functioned as they should. We aim to appreciate everything every day, keep having healthy and prosperous life.

I had lived ecological life in the past 20 years. "Bansei" , the product we developed, was born by taking fully advantage of "the power" of nature. Bansei is an unprecedentedly unique product which not only can add extra value to the various products but also help cleanse the environment today which is what we hope for.

Partnership

We are a "developer and a promoter of environment-friendly products" centering on "Bansei" , which has antioxidant, oxidoreduction, deodorization, antibacterial effects. We do business collaboration with business partners, also B to B businesses. We develop new products through the business collaboration with our partners, which enables to satisfy consumers who search for safe, reliable products ever before. We believe that we can create the prosperous future together. If you are considering the higher quality of products, please feel free to contact us. "Bansei" is the additive made from natural ingredients and can be added to almost any materials.

"Bansei", natural additives, can be mixed with various materials.



TOBPO

Great gift from nature; Amazing power, plant extracted liquid, "Bansei"

What is "Bansei liquid" ?

100% made from plant components. Mix plant components extracted from Japanese knotweed, persimmon leaves, mugwort and other plants which were once used as herbal medicine using our own unique blend and method.

We studied and learned about the miraculous natural power that herbs hold through 15 years of trial and error. "Bansei Liquid" holds the wish from the developer for people to have comfortable and healthy life.

Herbs contained in "Bansei"



■ Japanese knotweed

Japanese knotweed, Itadori, its name comes from "itai (pain) dori (take out)" which means removing the pain. It is said that Itadori has miraculous effect for the skin problems and stop bleeding and ease the pain when you put its young soft leaves on the injury.



■ Artemisia

Artemisia is effective for stiff shoulders, nerve pain, chilblains, and hemorrhoids, sensitive to cold, lower back pain, fatigue recovery. Artemisia had also been used as hemostat for scratches and cuts. This is because of the sterilizing effect of Artemisia.



■ Persimmon leaf

Rich in vitamin C which disinfects the skin, it is also said to be effective for removing the active oxygen. It is a popular cure in Korea for warming up your body from the core and also good for the period pain, menopause, lower back pain, nerve pain, dry skin or hemorrhoid.

To use and to be used "Bansei", what is its feature?



Refresh the room air.

Eliminate various daily room odors (odor of chemical substances generated from building materials, tobacco, food waste) and keep the room air clean.

Remedy for sick house problem

Toxic chemical substances such as formaldehyde can be returned to nature by using the products mixed with Bansei Liquid.

Control everything from oxidization

Dissolve and remove the toxic active oxygen. Eliminating active oxygen which causes the body oxidization will promote anti-aging.

Bansei Liquid is already utilized for building ecological houses, additive-free soap and cream, handmade earthenware and other housewares. It produces amazing effects in various scenes and is appreciated.

Bansei Liquid has a result of data on acute aquatic toxicity tests for containing more than 20000mg of LD50 (No. 103013129-002, April 10, 2003 issue)

Rinsing water becomes feed for fish and also cleanses the river. This is the real nature!

Bansei is being studied and developed in various field now.

Always keep making the air clean. New countermeasure for the sick house syndrome.

■ Main effect of Bansei Construction Method

Detoxify the room air contaminated with VOC (Volatile Organic Compounds), the main cause of sick-house syndrome generated from building materials and furniture.

This method enables to reduce the numerical values of the concentration of the 6 kinds of toxic chemical substances lower than the numerical value indicated by the "housing performance indication system" recommended by Ministry of Land, Infrastructure, Transport and Tourism"

● It is easy to use anywhere!

It can be used not only for the new houses but housing construction in general. How to use is easy, just mix and apply, anyone can easily do it!



TV coverage

What is sick-house syndrome?

VOC (Volatile Organic Compounds) such as house dust caused by the contaminated room air is considered as one cause of the sick house. These toxic chemical substances cause health problems. Especially those with allergic disease, children, patient or elderly are concerned.

Environmentally friendly, Bansei Mixture Products.

100% additive-free, gentle to every one

Soaps and sponges enhance their function when blended with Bansei liquid and it prevent from oxidization. Each of Bansei liquid contained product is 100% additive-free and is safe to use from children to elderly people.

"Miracle Cleaning Powder" made by the plant

For washing, cleaning and the rinsing water becomes feed for the fish, help cleanse the river. It is suitable for watering the flower pot!

Adding small amount in the bathtub will warm your body and makes your skin smooth and shiny.

Pouring the remaining warm water onto the tile or wall in the bathroom will prevent from molding.

Natural Powder soap "Sarasa" "Fuwari"

No chemical such as fluorescent brightener is used and have natural gentle finish.



"Shittori-san"

Sophisticated natural soap made from the selected virgin palm oil only mixing with plant extraction liquid.



Bansei Konnyaku Sponge

Made by 100% vegetable, Konnyaku sponge which gives your skin smooth finish, pleasant to use for long period.



Multipurpose Entire Body-Care Cream

Natural, fragrance-free, no artificial color, vegetable origin, and condition your skin speedy.



Create healing atmosphere -ecological house-

Bansei method

Bansei method uses the Bansei liquid which is extracted from the natural plant. It is blended with chemical substances, daily odors, and deal with sick house and environmental stress.



Throughout the year, we provide you a comfortable living place.

Fight off sick houses!

Bansei method makes the air density of toxic chemical substances lower than the value followed by Japanese "The Housing Performance Display System" which is recommended by the Ministry of Land, Infrastructure and Transport

Control humidity.

Bansei method assimilate the humidity when the temperature rise and keeps houses free from condensation and molding.

It removes daily odor

It harmonizes tobacco odor, odor from the garbage and pets and turns them into odorless to make the air clean.

Stop absorbing the static electricity and dust.

Avoiding the static electricity generation will

keep the floor, ceiling and wall free from becoming dirty.

Prevent bugs spread

It can prevent termites from invading due to its effect of keeping off bugs.

Energy saving

It can expect the energy savings when using air-conditioner to absorb the heat in summer and the cold in the winter.

No side effects!

It is the essence extracted from the plant; therefore, it is free from side effects unlike chemical agents.

The effect lasts long.

This product is unlike the other materials such as coal, its effect lasts long.

It is suitable not only for new houses but also for reform constructions in various ways.

Reform in general



Interior wallpaper works in general



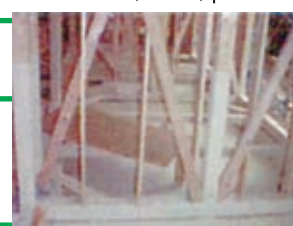
Interior dying, coloring in general
Floor, attic works

Control VOC and odors generating
from tatami and carpets

Foundation concrete works



Foundation, floor, pillar works



House cleaning, decoration





Plaster tile works

Humidity control for storage, closet,
shoe cupboard, mold control

Safe, reliable and low cost housing construction is available.





Construction materials and methods 01

Do not use building materials for other purposes.

Product name	Execution place	Execution method	Others
Bansei Liquid 	Painting general Oil paint(OP), adhesive 	Mix Bansei Liquid with the oil paint you are using in the ratio of 2-3% to dissolve the chemical substances contained in the paint such as toluene xylene. Mix 100cc Bansei liquid with 18 liter of oil paint (OP). Stir well before use. 60 ~ 70 m ² /16kg	Dissolve VOC. Deodorant effect. Avoid paint from aging. Control tar tobacco stain.
Bansei sealer 	Interior, for attractive finishing, etc. Decorative panel Shoe cupboard Modular kitchen Door Closet Carpet 	Apply undiluted liquid (dip a cloth into the liquid, wipe evenly. After drying, recommended to apply the liquid with the brush. Caution: Test before using in case there is a chance of changing color. 400 m ² /18L	Dissolve VOC. Deodorant effect. Avoid building materials from aging. Control house dust. Control molding. Rusting. Control tar tobacco stain.
Bansei Coat 	Foundation concrete Pillar, under the floor, plumbing	Mix 400 g of powder with 1 liter of "Bansei Coat" and stir well. Apply the mixture by using roller or brush (Spraying is also O.K) Mixing with the powder and use it for the foundation of the new buildings. Using Bansei method for the foundation of new houses. 5 ~ 6 m ² /1L	Dissolve VOC/ Deodorant effect/ Avoid paint from aging / Prevent bugs spread. Control humidity. Control molding/ Rusting/
Bansei Top 	Bansei method in general Apply 1.5m or higher from the ground	Apply undiluted liquid directly, paint with roller, brush and spray onto the building materials. 250 ~ 350 m ² /18L Using condition: Always apply the mixture of Bansei Coat and powder up to 1.5m from the ground. 	Dissolve VOC/ Deodorant effect/ Avoid paint from aging. Control molding Rusting.



Construction materials and methods 02

Do not use building materials for other purposes.

Product name	Execution place	Execution method	Others
<p>Water-based liquid</p> 	<p>Water paint, wallpaper adhesive. Diluting water substitute.</p>	<p>Water substitute for diluting wallpaper adhesive For wallpaper putty.</p> <p>When using for water-based paint, mix 10% of total weight of the paint and mix well before coating.</p> <p>For wallpaper, use 18L for 150 m² For painting 75 m² / 16kg</p>	<p>Enhance the adhesion speed. Dissolve VOC. Odor eliminating effect. Avoiding paint/glue from deterioration. Avoid catching tar from tobacco.</p>
<p>Liquid for mortar</p> 	<p>Foundation concrete construction. Concrete • Mortar. Plastering. Plaster wall • Tile joint. etc</p>	<p>Pour 500cc of mortar liquid into 1 m³ liquid concrete and turn it to mix well before using it. It enhances the resistance of ferroconcrete of concrete, also dries faster. Impose molding and rusting.</p> <p>Mortar • Plaster, Diatomaceous earth wall, etc. If ingredients are half degumming, use 100%, otherwise, use 50%. Use 100% for tile joint.</p>	<p>Depend on the construction site</p>
<p>Coat • powder</p> 	<p>Concrete foundation. Plaster board • wood in general. Floor, sewage, under Tatami mat.</p>	<p>Mix 400 g of powder with 1 liter of "Bansei Coat" and stir well. Apply the mixture by using roller or brush (Spraying is also O.K)</p> <p>Note: In order to maintain the effectiveness, use approximately 1 liter of "Bansei Coat" for 5- 6 m² .</p> <p>Use approximately 1 litter for about 5-6 m² .</p>	<p>Dissolve VOC. Deodorant effect • Prevent deterioration of building material. Avoid pests, humidification effect. Avoid molding, rusting.</p>
<p>Ceramic ball</p> 	<p>Ceramic water For all construction materials</p>	<p>How to make ceramic water Place 10 balls in 20 liter of water, leave it for 2 hours before using it. The holes on the ceramic ball absorb the chemical substances such as toxic gas or formaldehyde! High quality ceramic prevent the sick building syndrome which is currently in question.</p>	<p>Keep humidity constant by discharging the moisture within the air. Absorption, deodorizing power.</p>

Construction materials and methods 03

Do not use building materials for other purposes.

Product name	Execution place	Execution method	Others
<p>Flooring Wax for Plywood</p> 	<p>Flooring, vinyl floor tile, vinyl floor sheet wax. (It cannot be used for wax and oil stain, lacquer, mirror finish.)</p>	<p>Wipe off dirt and oil, dry well, evenly spread Bansei flooring wax gently by using duster or mop. Dry the surface well (about 30 minutes), and repeat it again. -Standard amount of use: 100 m² /L To avoid the chance of changing colors, please make sure to try it before using it. Keep it dark and cool place, avoid freezing and direct sun, keep it at 5 ~ 40°C in the airtight container, away from children. Be careful for preventing of fall, breakage and leakage.</p>	<p>Repeat it up to 3 times in one operation.. Do not walk on the surface until it dries completely.</p>
<p>Natural Wax</p> 	<p>remove dirt from the pain wood pillars, furniture before painting, and also has wax effect. (Not suitable or flooring in general such as plywood flooring, plain wood flooring, etc.)</p>	<p>Dilute 30cc Bansei Natural wax into 500 cc water, stir well before using. (If you use tap water, boil off residual chlorine before using) If you want to enhance dirt removing or wax effect, increase the ratio of Bansei natural wax. -Standard amount of use: 70 m³ /L</p>	<p>To avoid the chance of changing colors, please make sure to try it before using it. Keep it in a dark, cool place, avoid from freeze, direct daylight in airtight container (5 ~ 40°C).</p>

Others

Maintain freshness

“Bansei” is admitted its anti-aging, antibacterial effect, and we have tried to use it for food additive. As a result, it demonstrated that it can be used as a food additive, also due to the fact that it is passed the Container and Packaging Standard Test for food, we have succeeded to meet the standard for Food Additive Standard Product no.370 in accordance with the public notice made by the Ministry of Labor, the Ministry of Health and Welfare. This is how the “Bansei Preservation Bag” which keeps the freshness of content longer than usual was commercialized. We validated it reduces breeding ratio of general germs, keeps freshness of the food longer, and reduces the multiplying speed of germs which made us enjoy food fresh, in good condition. We look forward to expand our business by introducing the products which contribute to stop worsening the earth environment, through such product as which can extend “best before date” longer to reduce the food waste, and lead to the contribution to the environmental degradation. We expect that “Bansei Preservation Bag” as well as

resin-related products in general to be used even more through new business collaboration.

Additives

Currently, “Bansei”, natural additives, can be mixed with various materials.
Bansei is available in liquid form and master batch (solid chip); they can be added to your existing products and also to your new products. Why not consider using “Bansei” to your products? It has odor-eliminating effect, antibacterial effect, reduce-bacteria effect, antioxidant effect. We worked on developing and producing a master batch (solid chip) with special effect, and now we are actually able to produce them. Therefore, master batch additives (solid chip) are also available to be added to various products as well. Liquid as well as master batch (solid chip) are available to be used in various field, why not joining us to create new and unique products and introduce them to the world? We sincerely hope Bansei to be used in mixing with your products and create new collaboration with many companies around the world.

Bansei Liquid is already utilized for building ecological houses, additive-free soap and cream, handmade earthenware and other housewares. It produces amazing effects in various scenes and is appreciated.

What is sick-house syndrome?

Sick building syndrome occurs when people suffer from the health disorder due to the contamination of the room air. Room air contamination caused mainly by the particle matter, and chemical substance. Particle matters include bed bugs, fungus, bacteria (biological agent), cigarette smoke, house dust, etc. Chemical substance means volatile organic compound (VOC), which is the cause of the sick house and is attracted a lot of attention right now. The best known VOC is formaldehyde which is used as an adhesive preservative for building materials, interior decorations, furniture. VOC is also widely used in daily commodities, such as insecticide, aromatics. These toxic chemical substances cause us health disorder. Especially, influences to those with allergic diseases, children, patients and elderly are feared.

Sickhouse measures actual survey example (2005 enforcement)

The chemical substance which is targeted for the measurement	Living example of the conventional construction [$\mu\text{g}/\text{m}^3$] It is time after completion for one month	Living example of ten thousand straight use [$\mu\text{g}/\text{m}^3$] Just after completion	Ministry of Health, Labour and Welfare guideline level [$\mu\text{g}/\text{m}^3$]
Formaldehyde	39.4	4.8	100
Acetaldehyde	71.0	4.9	48
Toluene	400	13.2	260
Xylene	83.0	Less than 8.7	870
p-dichlorobenzene	Less than 2.4	Less than 2.4	240
Ethylbenzene	70.8	Less than 3.8	3,800
Styrene	16.4	Less than 2.2	220
Tetradecane	Less than 3.3	Less than 3.3	330
Nonanal	15.1	23.8	41
TVOC ※	2,260	284	400
Acetone	455	26.5	-
Acrolein	Less than 5.0	Less than 5.0	-
Propionaldehyde	5.0	Less than 5.0	-
Croton aldehyde	Less than 5.0	Less than 5.0	-
n-butyraldehyde	10.0	Less than 5.0	-
Benzaldehyde	145	11.2	-
iso-barrel aldehyde	Less than 5.0	Less than 5.0	-
Barrel aldehyde	9.0	Less than 5.0	-
p-torr aldehyde	Less than 5.0	Less than 5.0	-
m,o- torr aldehyde	Less than 5.0	Less than 5.0	-
Hexaaldehyde	42.3	Less than 5.0	-
2,5-dimethylbenz aldehyde	Less than 5.0	Less than 5.0	-
2 - butanone	537	7.0	-
n-hexane	Less than 5.0	Less than 5.0	-
2,4-dimethyl pentane	Less than 5.0	Less than 5.0	-
iso- octane	Less than 5.0	Less than 5.0	-
Heptane	Less than 5.0	Less than 5.0	-
n-octane	5.1	Less than 5.0	-
Carbon tetrachloride	Less than 5.0	Less than 5.0	-
Ethyl acetate	86.2	29.4	-
Nonane	51.3	Less than 5.0	-
2-propanol	39.2	109	-
Ethanol	176	20.6	-
Benzene	Less than 5.0	Less than 5.0	-
Trichloroethylene	Less than 5.0	Less than 5.0	-
Decane	79.9	Less than 5.0	-
4-methyl-2-pentanone	63.7	Less than 5.0	-
α - pinene	772	41.5	-
Tetrachloroethylene	Less than 5.0	Less than 5.0	-
1,2- dichloropropane	Less than 5.0	Less than 5.0	-
1,2- dichloroethane	Less than 5.0	Less than 5.0	-
Butyl acetate	98.8	Less than 5.0	-
Undecane	61.0	Less than 5.0	-
β -pinene	49.6	Less than 5.0	-
Bromodichloromethane	Less than 5.0	Less than 5.0	-
Dodecane	18.8	Less than 5.0	-
Limonene	45.4	Less than 5.0	-
3-ethyl toluene	8.9	Less than 5.0	-
4-ethyl toluene	17.3	Less than 5.0	-
1,3,5-trimethyl benzene	11.6	Less than 5.0	-
2 - ethyl toluene	8.7	Less than 5.0	-
1,2,4-trimethyl benzene	40.2	Less than 5.0	-
Tridecane	6.2	Less than 5.0	-
1,2,3-trimethyl benzene	9.2	Less than 5.0	-
1,2,4,5- tetramethyl benzene	Less than 5.0	Less than 5.0	-
2 - ethyl-1-hexanol	Less than 10.0	Less than 10.0	-
Pentadecane	Less than 5.0	Less than 5.0	-
Decanal	Less than 5.0	15.4	-
Hexadecane	Less than 5.0	Less than 5.0	-

The total density of ingredient level which is identifiable by GC/MS from hexane [C6] to hexadecane [C16]. But I assume it a toluene reduced value about the ingredient without a rate level.

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Natural goods

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ERS(Environmental Recycling System)

<http://e-gomi.okomari.net/>

Oxidation-reduction, Anti-aging

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