

CRYSTAL SOIL

From

JUDASH TRADING

INFORMATION

The information below has been gathered from various sources and is provide for your help. It is not necessarily the Consider opinions of Judash Trading. This will give you a wider picture, for the product off crystal soil. You may like To use some of this information, or just use it as education. In some cases we at Judash have used this information and we are glad to share this with you. We can answer further questions where we can help. Some off the information may Repeat itself but this is because have used a number of different publication to gather this information.

FEATURES:

- 1) Crystal soil is a new type of green environmental material
- 2) It's non-toxic, odorless, and clear
- 3) It can absorb water up to 50 - 100 times of its original weight, and after expansion, it looks very colourful and Brilliant
- 4) Used for indoor plants to make your home and office more unique and beautiful
- 5) Ten colors available: red, pink, blue, yellow, purple, orange, green, light green, light blue and Transparent
- 6) Three shapes available: cubic shape, granule shape, pearl shape
- 7) Become transparent and colorful after expansion
- 8) Can keep indoor plant alive without natural soil

PACKING:

Bulk packing: 20kg rigid paper bag with PE layer inside for moisture proof

Small packing: 8g / 15g / 30g / 1kg / sealed plastic bag (according to customers' requirements)

FREQUENTY ASKED QUESTION:

What kind of water is best to use with Crystal Soil™? Distilled water is the best. The "more pure" the water, the larger the crystal will grow. Boil your water and add to crystals. The hot water will make your crystals form faster.

How long do I let the crystals sit in the water? 3-4 hours if you use room temperature water.

Why do plants live in Crystal Soil™?

All plants need to grow is water, air and nutrients. Crystal Soil™ provides the water and by adding a plant food (we suggest Vigor and Grow by Future Gardens) to the water when hydrating the crystals your plant will be very contented.

What about mold and mildew?

Crystal Soil™ eliminates mold and mildew. Since the water remains in the crystal until the plant needs it there is no chance for mold, mildew or even root rot to develop.

Can I get other colors than the 10 offered by Crystal Soil?

Yes! Just use food coloring to the diamond white. The crystal absorbs the food coloring so it doesn't stain anything.

FREQUENTLY ASKED QUESTION:

What plants will work best with Crystal Soil™?

The most commonly grown house plants used are: Spider plants, Dumb Cane, Algerian Ivy, Cordatum, Heart Leaf Philodendron, Marble Queen, Gold Dust Ivy, Gold Dust Pothos, Peace Lily, Caladiums, Dragon Plants, Bromeliads, White Butterfly, Gold Dust Dracaena, Devil Ivy, Red Veined Prayer, Chinese Evergreen, Sander's Dracaena, Arrow Head Vine, Nephthis, Peperonia, Ferns, Ti Plants and Palms.

Plants such as cacti, succulents or orchids are not recommended.

How can I clean my crystals when they get cloudy?

If your polymer crystals become discolored or cloudy, simply empty into a colander or strainer and thoroughly rinse with water and drain before re-using.

What should I never do with my Crystal Soil™?

Never ever dispose crystals down your sink drain or plumbing pipes.

Can I start seeds or bulbs in Crystal Soil™?

Yes. Seeds will root in Crystal Soil™ without you having to worry about "sour" water from using plain water.

Will Crystal Soil™ hurt my family or pets if they eat it?

No. It is 100% non-toxic and biodegradable.

Not all polymers are made the same. The manufacturer of Crystal Soil™ can be used with your houseplants.

What is polymer?

Polyacrylamide was developed in the 60's to grow plants in the desert and has been refined to last longer and absorb water at higher rates. Scientifically it is a catalytically cracked natural gas and an acrylic solution.

What's the difference between Crystal Soil™ and other types?

Crystal Soil™ is just what the name implies. You can use it in place of soil for your houseplants. Crystal Soil™ can also be used as a novelty/home decor product to be used with cut flowers, candles etc.

Is polymer the same ingredient found in baby diapers?

No. That ingredient is Polyacrylate, which absorbs greater amounts of liquid but breaks down very quickly.

Is polyacrylamide and polyacrylate the same?

No. Polyacrylamide can be used for potting your houseplants. Polyacrylate is used for baby diapers.

A. What plants are suitable to grow in crystal soil?

The plants, which like living in darkness and humidity, are apt to grow in the crystal soil. For instant, bamboo, herbage, arrowroot, amaryllis, palm, dasheen, and fleshy-plants. But the plants, which like living in sunshine, aren't apt to grow in the crystal soil. Such as flesh flowers and fleshy-plants.

B. If I want to grow the plants in the crystal soil, how can I get ready to do?

FREQUENTLY ASKED QUESTION:

1. Select the suitable plants; the plants, which need some time to fit the conditions of crystal soil maybe, grow slowly. Please select suitable plants to grow.
2. Sheet off the decayed root and leafage, and clean the plants first. The plants with soil should be soaked in water for some time, then take the plants out of water and clean off the soil and sheet off the decayed root and leafage. After that, it should be dried in the sun to prepare for use. When you are ready to being, please pay attention not to damage the taproot. When you grow the plants, you'd better put the root into disinfectant for some time, then take out of the plants to grow in crystal soil. Many kinds of plants can grow in crystal soil after cleaning. But a few plants need growing in water for some time, and then they can be transplanted into crystal soil (the time of implantation is determined by the temperature and plants' conditions.) The plants which need growing in water should be cleaned off soil and put them into water. The level of water should be submerging into the root of plants. Change the water once 4 days, and then plant should be planted into the crystal soil only when the new root comes out.
3. Combination and match the colorful crystal soil.
One vase can be used for 1 or 2 colorful crystal soils to combinations, after we divide the two colors to soak. You'd better not to choose two closer colors to combine. Choose two colors i.e. red & green, not too many as the colours tend to get lost in amongst the vase.
4. Put Crystal-Soil into water at the proportion of 1: 70or100, and let it soak for. 5hrs (you must not stir in the container). You should reserve a little crystal soil dry particles before soaking. This is used for absorbing superfluous water, put the dry particle into bottom of pot or vase. When preparation is ready, please pay attention not to drop water on to the leaves. Once the leaves have water, they will decay. Please don't sprinkle water on the leaves. You should clean the container and dry it, then put the reserved crystal soil dry particle into the bottom of pot or vase, and put the crystal soil, which drains out the excess water. When the root of plants is covered by crystal soil, you should lift the plant gently so that the root grows better. At last, you should press out the crystal soil by hands. You should not choose too big vase to grow the plants with crystal soil.

Q - Can I place candles into the crystal Soil?

A - Water crystals work great with candles and floral arrangements.

Q - Can I use with my live houseplants?

A - Suggested plants include arrowroot, bamboo, pothos, Chinese evergreen, dragon plant, dracaena, palms, spider plants, dieffenbachia, and philodendrons. **DO NOT USE** with cactus, succulents or orchids.

Q - How do I dispose of unwanted crystals?

A - To dispose of unwanted crystals Soil simply pour the crystals into flowerbeds, gardens or mix into soil. The gel crystals are great additive for potting and garden soils. Water-Gel Crystals is a non-toxic polymer substance that will not harm plants, grass or soil. **CAUTION!** Crystal gel is extremely slippery when spilled. Never flush or pour crystals Soil or gel down the drain, crystal swelling could possibly clog drainpipes.

FREQUENTLY ASKED QUESTION:

Q - How much crystal gel will an 8gm package of the Crystal Soil make?

A - Add an 8gm packet (6 teaspoons) of the dry crystal polymer to a 320gm bottle of distilled water. Let it stand for about four hours (overnight is great). The crystals will swell up and increase their weight by approximately 400 times. Next, use a sieve to strain off any surplus water and allow the crystals to drain for 2 hours. Now you have a whole lot of sparkling Crystals. Now put the crystals into a container or bowl, add candles, flowers or some plants, finished! You will notice that even an ordinary glass turns into a small wonder at the touch of your hands. Store the unused gel back into jar, Replace lid and retain until you need some more. Since you used distilled water, the crystals should remain usable for quite a while. Store in a dark area until ready to use. The gel can be easily colored (dyed) by just stirring in a few drops of food coloring or icing colouring.

Q - How long will the crystals last?

A - Length of life for decorative purposes (because of exposure to light) is approximately 1-2 years. If mixed in soil, it serves for about 7-9 years as a source for moisture retention.

Q - Is it safe for kids to use?

A - Crystal Soil is a polymer gel powder (cationic polyacrylamide powder) and is non-toxic, ecologically neutral; it breaks down after its useful working life to water, carbon dioxide (CO₂) and nitrogen. Although non-toxic it should never be consumed or taken internally in either its granule or its gelatinous forms. Children without constant adult supervision should never use it.

Crystal Soil is a very efficient water-retaining agent. This product is an excellent replacement for traditional dirty soil for in-door plants and flower arrangement. It is fashionable, artistic, environment-friendly and convenient to use. It's a revolutionary for the indoor flowering techniques. It brings new lives to gifts of miniature landscapes and fresh flowers. The colorful displays are particularly suitable for family, guesthouses, hotels, bars, nightclubs, restaurants, and café's. Crystal Soil does not release annoy smell, foul water and thus prevents mosquito from growing.

MANUFACTURING:

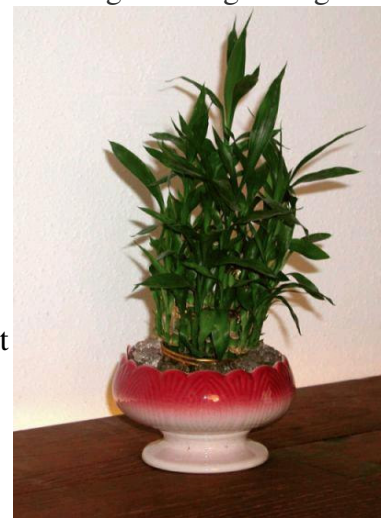
The company making Crystal soil is a leading manufacturer specialized in producing crystal soil, which is a super absorbent polymers with many nutrition. Crystal soil acts as a reservoir to store and release steady water and nutrients, which the plants need. It can absorb water and release nutrition time after time.

Crystal soil is colorful, especially for home and public place decoration. The crystal soil is good for growing your indoor plants. You will enjoy it very much. .

PRODUCT DESCRIPTION:

Water Crystals are ideal for making decorations using live plants or candles.

Any size or shape of bowl or container can be used with the Water Crystals. Plants can survive for several weeks without their regular watering. There are no limits to the imaginative ways to create your plants and candle arrangements. Try it yourself! You will discover that you have developed a complete new creative talent.



BIODEGRADABLE:

Length of life for decorative purposes is approximately 1-2 years, although lengths have been reported when mixed into soil.

As long as the crystals are never allowed to completely dry just adding additional water can regenerate dry out they.

When the crystal polymer is mixed with soil it helps to improve the quality of the soil.

PREPERATION INSTRUCTIONS:

Simple Preparation

Add 8gms of the dry Crystal Soil granules to approximately 320gms of water and leave to swell for about eight hours. During this time the granules absorb the water and increase their weight by approximately 400 times.

Please Note: The softer the water the more the gel will swell.

Next, use a sieve to strain off the surplus water and allow the gelatinous mass to dry for at least two hours. This helps to avoid a build-up of water in the bottom of the glass container. Now put the Water-Gel Crystals into a glass container and add plants or candles, finished! You will notice that even an ordinary glass turns into a small wonder at the touch of your hands.

Want Smaller Amount

1 teaspoon of the Medium or Large Crystal polymer will absorb approximately 1 cup of water. Just place the crystals in a large bowl and add water. Wait 30 minutes and you will have beautiful ice looking crystals. Adding food coloring to the water before mixing will color the crystals to the color of the water absorb. If you want to add fragrance to your crystals, add a water-based fragrance (not oil-based).

Amazingly Versatile

Range of application: It is recommended to use plant varieties, which are not too sensitive to water. Remove the young plants from their soil or hydroponics medium. Clean the roots thoroughly before planting them in the Crystal Soil. Transfer side shoots directly into Crystal Soil. Because of the high rate of success they do not need to be left to root first in a glass of water.

Economical Watering

Plants in Crystal's Soils Polymer Gel can survive for several weeks without regular watering without coming to any harm. You will notice with time that the volume of your Crystal Polymer Gel diminishes. The reasons for this are the plant's water requirements, exposure to light and surface evaporation. Further watering will cause the Crystal Soils Polymer Gel to swell up again.

When dirty, the gel can also be cleaned. Remove the plant and if necessary cut back the roots. Then rinse the gel repeatedly using distilled water.

Crystal's Soils Polymer Gel regenerates itself each time it comes into contact with water.

Avoid build-up of water, do not place Polymer Gel directly on a radiator and do not leave it for long periods of time in direct sunlight. Exposure to light, especially sunlight, and repeated drying cycles hastens premature degradation.

Coloring and Dyeing Polymer Gel

Crystal Soil can be colored (dyed) using food or icing color, available at most grocery and craft stores. Add slowly and stir until desired color is achieved. To change color soak overnight and repeatedly rinse with water until clean. Drain well for 1/2 hour. Recolor.

Odors and Discoloration

If the Crystal Soil develops a discoloration or odor (the polymer becomes contaminated), clean polymer gel using distilled water, rinsing repeatedly until clean. Cover with distilled water and let stand overnight. Drain and re-rinse once again with distilled water.

Biodegradable

Length of life for decorative purposes (because of exposure to light) is approximately 1-2 years. When mixed in soil it serves for approximately 7-9 years as a source of moisture and helps to improve the quality of the soil. It can be disposed of with normal household rubbish. Crystal's Soil is non-toxic and ecologically neutral. It breaks down after its useful working life to CO₂, water and nitrogen. Although non-toxic, it should not be consumed in either its granule or its gel form. Various reports from Co-operative Extension Services and Agricultural Universities indicate that polyacrylamide is a source of nitrogen for some crops and recommends it as a beneficial soil amendment.

Crystal soil is a new type soil-less cultivating material. Best for indoor planting without soil, and decoration, is currently pretty popular brand new flower-grass plant joining decoration and environmental protection together. It does not only substitutes the dirty mud, but also joins fashion beauty and environmental protection together. And the Crystal-Soil does not only raise the room-inner flower-grass planting new revolution, but also brings crystal miniascape and fresh flowers gift new fashion. 100% environmentally safe and bio-degradable.

1. Pleasing and feast one's eyes on: Be gaudy with primary colours, arranging in pairs or groups casually. Crystal-Soil outlook is floweriness and colorful, sparkling and crystal-clear, looking pretty like the crystal jelly, and with strong view and admiration, there are many types of colours. The glass basin flower implanted with Crystal-Soil can let people enjoy viewing the flowers and leaves, and furthermore enjoy the growth process of root series.
2. High water-protection: Be rich of water, nourishment and microelement. Aficionado color Crystal-Soil mother material is particle state, the weight would be added up 50-100 times after dipped into water and the wet material that can plants becomes eventually (please refer to the product category introduction and use method for the details). Be rich of water (95%), nourishment and microelement. You just have to insufflate a little bit water during 15-30 days, there's no need to fertilize.
3. Easy operation: planting flowers and inserting flowers as well planting flowers: It's no need to irrigate and fertilize frequently Inserting flowers: can keep fresh long term and don't fade long time adding plant flavor: perfume slowly releases inside the room, gratefully sentiment
4. Green environmental protection: No mosquito in crystal, no sullage, no peculiar smell; no poison, no harm and no pollution; style, sanitation and environmental protection.
5. Long life: Aficionado color Crystal-Soil can repeatedly absorb and release water can continuously provide plant 2-5years with nourishment, microelement and bactericide.
6. High survival rate: By experiment, the survival rate high to 95% in using Crystal-Soil to plant a variety of room-inner plants. Even the Jun zi lan, hong zhang, hong yun dang tou and forth plants for example can be planted alive!

Applicable plants

Crystal-Soil is appropriate to plant the leaf-view type plants, which like dankness or strong suitable water ability or room-inner implant plants. Better to be used in the plant of indoor, Herbage species, Palm species, Arrowroot species, Stone garlic species, Iron species, Bamboo species, and Dasheen species. Such as Arrowroot, Bamboo, pothos, Pineapple department, Chinese Ever green, Dragon plant, Dralaena, Fern, Palm, Spider plants, Defenbachia, Philodendrons. Such plants as the lily belongs to of mandarin orange.

Use method

1. Prepare clean water according to the proportion of mother particle to water (1kilogram mother particle can be made 50 to 100kilograms Crystal-Soil finished product)
2. Put the prepared mother particle into the well mixed solution, and then place about 4-8 hours, the mother particle will expand and shape into the Crystal-Soil after sufficiently absorb water, if there is redundant water, please use the sieve or other water purifier to sieve redundant water in order to enhance the breath functionality.
3. All kinds of different color, it's best to marinate respectively, so that you will easily arrange in pairs or groups and bottle.
4. Crystal soil work great with candles and floral arrangements.

5. How do I dispose of unwanted crystals?

A - To dispose of unwanted crystals simply pour the crystals into flowerbeds, gardens or mix into soil. The crystal soil is a great additive for potting and garden soils. Crystal's soil is a non-toxic polymer substance that will not harm plants, grass or soil.

CAUTION! Crystal soil is extremely slippery when spilled. Never flush or pour crystals or gel down the drain, crystal swelling could possibly clog drainpipes.

Planting method

Preparation work

1. Choose appropriate plant breed Read carefully former chapter "Applicable pants" and select the suitable planting breeds, it needs some time for planting plants to adapt to Crystal-Soil environment, maybe the young pants delay to live.
2. Get rid of the rot root, rot and do cleaning Use water to moist the mud first if you want to plant plants using mud, and then move out the plants and wash away mud, get rid of the rot root, rot leaf, air it and prepare for use after cleaning. Don't damage the taproot during operation. Most shade-grow plants can be planted using Crystal-Soil after cleaning the plant's root part. A few plants can be putted into clean water to plant if root series does not develop enough, and then transplant it after root series develop enough (the water planting time depends on air temperature and condition of plants) Water planting specification: clean away the mud from plants' root part and then put it into water, just let water marinate right over it's root part, change water about after 4days every time, the plant can be planted after new root series grows up in plant trunk.
3. Colour's combinative arrange in pairs or groups and combination. It's best to combination 2 types different colour Crystal-Soil that is marinated respectively in a vase, you'd better arrange Crystal-Soil in pairs or groups choosing whose colour are approximately the same, for example, red, orange, yellow, purple are a series (choose any two types); green, blue are a series, do avoid arranging in pairs or groups using many types colour.

4. Marinating method It needs 2-4 hours to marinate dry Crystal-Soil particle and the proportion dry Crystal-Soil particle to water is 1:50(Note: do not mix around during marinating), The plants which like dryness are such as grass species, cacti ball, cactus and so forth; reduce reasonably the proportion as 1:50-60 or so during practical marinating, it's best to use clean water to marinate Crystal-Soil (For instance distilled water, mineral water, pure water, cool boiled water), beforehand leave a few dry Crystal-Soil particles and put them into the bottom of basin, the Crystal-Soil will absorb redundant water.

Planting

1. Wash the vase and mop it dry, put the beforehand left dry Crystal-Soil particles into basin's bottom to absorb redundant water, and then spread a level Crystal-Soil to the bottom as the before well designed color. Put plant into the vase, try to let plant's root series disperse and stretch, place Crystal-Soil around the root (If you have designed different color, then place Crystal-Soil in color's order).

2. After placing all the Crystal-Soil, the criterion of height is Crystal-Soil covers completely the root right up to vase gob, and then lift up slightly plant in order to let root stretch, last gently press tight Crystal-Soil. Make sure the plant is stable and not deflective after planting, irrigate a little water.

3. It's best to use flower disinfections and handling fluid to marinate the plant, and then to plant. Disinfect root for 10 minutes using three in a thousand potassium permanganate solution, wash the root clean, then air the root's surface, choose suitable bottle, stretch root and just let plant be planted right into the bottle

4. For some plants such as little angel, gui bei zhu, splosh tree, mary ann, ya ma xun and so forth, note not to let water drop to leaves during preparation, the leaf surface would better if there is no water above it, moreover do not spray leaf surface.

6. The container used for planting Crystal-Soil should not be too big, usually the suitable cubage is 250-2500 milliliter, and it's appropriate to plant low type room-inner constantly green leaf-view plants.

Tend and protect

1. Phenomenon: root series is damaged or some leaves turn yellow after transplant, no matter dust plant, water plant, or Crystal-Soil, some root series would be damaged and rot or some leaves would turn yellow. Just cut away the yellow leaves, root putrescence would affect growth, should cut away the rotted root in time and then plant in Crystal-Soil. If there are too much-rotted roots that should spill Crystal-Soil, cut rotted roots clean and sieve dry the Crystal-Soil, and then plant again.

2. Phenomenon: Crystal-Soil surface has been stained with dust or is dirty take out surface layer Crystal-Soil and wash it clean, after marinating air surface water and then place it into vase.

3. Other In usage, add or change Crystal-Soil according to plant and plant's growth condition, or add periodically appropriate quantity suitable to plant's growth nutrition fluid. For most plants, it needs to insufflate leaf-surface every 1-2weeks (the leaf-surface water can add leaf-surface fertilizer), it's not good to insufflate frequently, otherwise leaf piece is easy to turn yellow. The ability of Crystal-Soil itself keeping water is strong, hence do not irrigate usually, while you observe the height of Crystal-Soil decline evidently, add nutrition fluid according to the proportion to normal quantity as 2:1 in order to let Crystal-Soil absorb and expand, but do not add full water otherwise the ventilation ability would decline, should pour the redundant water and then sieve it dry.

1. Do not let the sunlight irradiate it straightly long time. If the surface layer of flower mud dehydrate and shrink, take out the surface layer of flower mud and dunk it in water, and then place it back.
2. Crystal-Soil has no taste, plant's necrotic root and leaf or other contamination may give off smell, please cut off the damaged root and leaf before planting.
3. Crystal-Soil moisture and nutrient would gradually reduce as plants absorb and evaporate, after you add water, the particle will expand again as absorb water, and Crystal-Soil can be reused.
4. Crystal-Soil is a polymer gel powder (cationic polyacrylamide powder) and is non-toxic, ecologically neutral; it breaks down after its useful working life to water, carbon dioxide (CO₂) and nitrogen.

Although non-toxic it should never be consumed or taken internally in either its granule or its gelatinous forms. Children without constant adult supervision should never use it.

Crystal-Soil is a new type soil-less cultivating material, Best for indoor planting without soil, and decoration, is a currently pretty popular brand new flower-grass plant joining decoration and environmental protection together, it does not only substitutes the dirty mud, but also joins fashion beauty and environmental protection together. And the Crystal-Soil does not only raise the room-inner flower-grass planting new revolution, but also brings crystal miniascape and fresh flowers gift new fashion. Various color crystal is especially suitable for decoration and furnishing of such as family, guesthouse, hotel, bar, ballroom, western restaurant and tearoom and so on, it's the best gift too. Plugging carnation into the Crystal-Soil and sending to the getting well patient, which portends the patients will get well soon; Plugging rose into the Crystal-Soil and sending to the sweet heart, that portends the everlasting love immaculacy as crystal...

WITH BELOW CHARACTERISTICS

1. Pleasing and feast one's eyes on: be gaudy with primary colours, arranging in pairs or groups casually. Crystal-soil outlook is floweriness and colorful, sparkling and crystal-clear, looking pretty like the crystal jelly, and with strong view and admiration, there are many types of color such as rose red, agate red, grape purple, jade green, deep-sea blue, lemon yellow and bright-silver white and so on. The glass basin flower implanted with crystal-soil can let people enjoy viewing the flowers and leaves, and furthermore enjoy the growth process of root series.
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THANK YOU