TERRAKOAT INTERNATIONAL

TerraKoat EX Decomposed Granite Stabilizer

****IMPORTANT** When using TerraKoat EX CONCENTRATE add four parts water to one part concentrate before use. Be sure to break up any sediment before adding water**

Application Instructions

DESCRIPTION: **TerraKoat EX Stabilizer** is a unique blend of acrylic polymers & pine tree rosin designed to bind together a wide variety of small aggregates commonly referred to as decomposed granites (dg): pathway mixes, crusher runs, etc.

TerraKoat EX Stabilizer is easy to apply and is the only stabilizer of it's kind. "There truly is no equal."

FEATURES

- **Easy to apply process.**
- **Creates a strong bond on a wide variety of aggregates.**
- **Resists surface erosion from both rain water and foot traffic.**
- **Easy to maintain.**
- **Reduces dust, gravel migration and erosion.**
- **Allows for the use of patio/pathway year round.**
- **No special tools or skills required to build.**
- **Build using local aggregates.**
- **Will not harm plants or aquatic life.**
- **EPA-compliant.**

A NEW INSTALLATION

1. ***AGGREGATE SELECTION FOR FINAL SURFACE*** ***Select an aggregate that contains a variety of sizes. For instance, crushed stone mixes such as 3/8 minus, 1/4 minus or 3/16 minus work well with TerraKoat EX Stabilizer, Single size aggregates like 3/8 clean rock or pea gravel are not suitable.***
2. ***STRUCTURAL STONE BASE PREPARATION*** ***Before starting the actual project, factors such*** **as climate, native soil type, amount of use, should be taken into consideration. As a rule of thumb, "The better the base npreparation, the better the results." For optimum performance, install 4 to 6 in of 3/4 minus crushed stone,then compact using a vibratory plate compactor.In restricted areas where a compactor will not fit, use a hand tamper.**
3. ***SURFACE AGGREGATE:*** **For a 2"compacted depth, spread 3" of DG over the compacted structuralstone base. This will compact down to 2" in step #6. Rake or screed to the desired level, and slope to allow water run off. Do not compact until after TerraKoat EX Stabilizer has been applied.**
4. ***PRE-WATER THE SURFACE*** **bottom of the DG. The DG should be moist but not muddy. Adding to much water can cause cracking . Wait 30 to 90 minutes + or - before adding TerraKoat EX Stabilizer.**
5. ***APPLY THE TERRAKOAT EX:*** **TerraKoat EX is made with genuine hand extracted pine tree resin and may contain small tree fragments.These natually occuring inclusions can be left in during step 5. For smaller projects use a watering can with a shower head spout or pump sprayer to apply. For larger projects a powered sprayer or distributor truck can be used to apply the TerraKoat EX to the surface. Apply the Stabilizer at the rate of 20 Sqft. per gallon for residential pedestrian use, or 12 Sqft per gallon for commercial pedestrian use. Till the stabilizer into the DG. The TerraKoat EX Stabilizer should fully penetrate throughought the DG**
6. ***COMPACTION*** **While surface is still damp but not saturated, compact the surface with a plate compactor for smaller projects, or a ride on roller in static mode for largere projects. Two or three passes are recommended. In locations where a compactor is not feasible a hand tamper may be used. The better the compaction, the better the results.**
7. ***TOP KOAT:*** **When the surface of the DG is dry to the touch, apply TerraKoat EX Stabilizer at 60 sqft per gallon Allow24 hours to cure before use. If TerraKoat EX contains tree fragments, pour through a window screen brfore filling sprayer.**

TERRAKOAT INTERNATIONAL

TERRAKOAT EX DECOMPOSED GRANITE STABILIZER

REBUILDING AN EXISTING SURFACE

1. Scarify or rototill 1 inch of the surface, break up any clumps until it has the consistancy of untreated DG. Add new DG as needed.
2. Follow steps 3 to 7 of instructions for new installation on page with an appication rate of 30 sqft per gallon.

INSTRUCTIONS FOR MAINTENANCE

1. In order to extend the life of your DG we recommend that a maintenance **Koat** of **DG-RainKoat Decomposed Granite Weather Seal** be to be applied annually. Preferably before the rainy season. Apply **DG-RainKoat** at the rate of 60 ^{sqft} per gallon. For added protectection against harsher weather, A second coat can be applied. **DG-RainKoat** is sold @ **www.TerraKoat.com**

IMPORTANT

- In locations where the plate compactor or ride on roller will not reach use a hand tamper or a block of wood and a hammer compact corners and other hard to reach areas.
- All crushed stone aggregates are not created equal, when in doubt, do a test area.
- **TerraKoat EX Stabilizer** does work on sands, but sands are not considered as strong "structurally speaking" as a crushed stone mix with larger size stones like a 3/8 minus would have.
- **TerraKoat EX Stabilizer** does not make concrete, expect that some surface aggregates may become loose over time.
- In some instances a crack may appear, if the foundation is not well prepared.
- Slope the surface so water will run off.
- Form or taper the edges (if you choose to form, leave them in place when done).
- Allow 24 to 48 hours at a temperatureabove 60°F (16°C) for surface to cure.
- Do not apply **TerraKoat EX Stabilizer** if rain is expected within 48 hours.
- Please store **TerraKoat EX Stabilizer** container at above 32°F (0°C).
- Divide your coverage surface into sections to ensure a equal application of the product.
- Avoid temperatures below 50° or above 85° F for any phase of the installation. On warmer days it is best to install in the morning.

Recommended Installation Rates	COMMERCIAL USE Installation Phase:	Coverage
12 Sqft Per Gallon	Pour-In Before Compaction	10 Sqft Per Gallon
60 Sqft Per Gallon	TopKoat After Compaction	

Recommended Installation Rates	PEDESTRIAN USE Installation Phase:	Coverage
20 Sqft Per Gallon	Pour-In Before Compaction	15 Sqft Per Gallon
60 Sqft Per Gallon	TopKoat After Compaction	

WARRANTY:

TerraKoat International warrants this product to be free from defects. TerraKoat International cannot guarantee final results as it has no control over surface and sub-surface preparation and product application.Where permitted by law, TerraKoat International makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of merchantability or fitness for particular purpose. The purchaser shall be responsible to orchestrate their own tests to determine the suitability of this product for their particular purpose.TerraKoat International's liability shall be limited in all events to supplying sufficient product to re-treat the specific areas to which product proven to be defective has been applied. Acceptance and use of this product absolves TerraKoat International from any other liability, from any and all sources, including liability for incidental, consequential or resultant damages whether due to breach of warranty, negligence or strict liability. This warranty may not be modified or extended by representatives of TerraKoat International, its distributors or dealers, independent contractors, clients or end-users of any kind.

TERRAKOAT EX

INSTALLATION TIPS

READ THIS BEFORE YOU INSTALL

Reading and understanding the installation instructions and supplemental informational in this document is an important factor in assuring the best possible results for your project.

Since it's conception and countless installations over the years, TerraKoat EX has never had a product failure. Not one not ever! You won't see competitors making this statement. There are only two factors that can leave you with less than desired results when using TerraKoat EX.
Installation errors, & Incorrect Material Gradation .

Avoid Possible Installation Errors

It is important to read and understand all installation instructions and supplemental documentation completely. TerraKoat EX is not like other products. Disregard installation information from any other product. If you are not sure about any step in the installation process or you have questions or concerns regarding site conditions, take a moment and send them to Questions@TerraKoat.com prior to starting the installation process.

Acceptable Gradation

What makes decomposed granite a great paving material is DG consists of a specific combination of different sized aggregates ranging in size from approximately 3/8" all the way down to a fine powdery dust often referred to as fines. The combination of different sized aggregates and fines is what allows decomposed granite with the proper gradation to compact down to a hard durable surface. Pathway material that does not have the appropriate blend of aggregate sizes will not reach optimum compaction. Most of the decomposed granite sold by landscaping supply companies should consist of the proper blend of aggregate sizes and fines. However on more than one occasion we have seen DG that did not fall within the acceptable range required for optimum compaction. Before you purchase the DG for your project, it's a good idea to request a sieve analysis for the DG. Every quarry that produces DG should have a sieve analysis available for your review. Make sure the aggregate sizes in the analysis fall within the acceptable range noted in the chart below. If you are not sure how to interpret the range of acceptability you can always send the sieve analysis for the DG to SieveCheck@TerraKoat.com. A TerraKoat technician can review it for you.

TERRAKOAT EX

INSTALLATION TIPS

Proper Dilution

For a new installation TerraKoat EX Decomposed Granite Stabilizer Concentrate must be diluted with 4 parts water to one part concentrate before use. TerraKoat EX is nothing like any other product. Infused with a powerful binding agent that once optimum compaction is achieved puts a strong hold on Decomposed Granite. It is important not to add less water than specified. Adding less water will alter the viscosity of TerraKoat EX and ultimately reduce effectiveness of the product. After adding 4 parts water TerraKoat EX will have translucent almost pearl like appearance that may feel slippery rather then sticky. This is the desired consistency and helps TerraKoat EX soak into the DG offering maximum penetration.

Great Compaction is an absolute must

In order for TerraKoat EX to be effective optimum compaction is an absolute must. Without great compaction nothing else in the installation process matters. The good news is its not difficult to achieve optimum compaction. There are however some factors that need to be taken into consideration. For example, proper edging and final grade height are two very important installation considerations that can make a big difference in the final results.

Strong Edging Is Needed For Great Compaction

Good compaction is essential for a quality install. The general rule is "The better the compaction, the better the results." In order to achieve optimum compaction strong edging is required. You can only achieve optimum compaction if you have something stable to compact against. This can be anything that will not flex during the compaction process. Steel edging makes an excellent edging material, stone or concrete curbs are great. Bender board or composite flexible edging is acceptable only if the support stakes are installed closer together then the edging manufacturer suggests. We recommend no less then a 10" spacing in between bender board stakes.

TERRAKOAT EX

INSTALLATION TIPS

After Compaction DG Should Be Above The Edging

When calculating the amount of DG needed for your installation there are compaction guidelines that need to be taken into consideration.
The goal is after compaction the height of the DG should end up slightly above the edging. If while compacting you notice the DG has compacted down below the edging you should stop the compaction process. Break up compacted DG. Add more DG and stabilizer and compact again. When the DG drops below the edging it is almost impossible to get great compaction by the edges. If the height of the DG is just a little below the edging it can prevent the compactor from making solid contact to the DG. If the DG compacts down 1/4" or more it is difficult to get the compactor flush against the edging. If you are installing your DG at the recommended 2" compacted depth, you will want to lay out 3" of DG. This will compact down to about an 1/8" to a 1/4" above the edging and is the perfect height to achieve optimum compaction. DG will vary from quarry to quarry this is just a guideline. You may need to do some testing using the DG specifically for your project.

Gradation Guidelines

No matter what pathway material you use if the sieve analysis results fall to far outside of the guidelines noted in the chart below you will not be able to get the level of compaction required for a long lasting installation.

U.S. Sieve No.	Percent Passing by Weight
# 3/8"	100
# 4	90 – 100
# 8	75 – 80
# 16	55 – 65
# 30	40 – 50
# 50	25 – 35
# 100	15 – 20
# 200 to	10 – 15

TERRAKOAT EX

INSTALLATION TIPS

WHEN TO COMPACT

First and foremost, do not get ahead of yourself. If TerraKoat EX cures before you compact it will not bind well to itself. Some judgment needs to be used in regards to the waiting time after applying TerraKoat EX.

The waiting times noted in the instructions are just guidelines and can vary significantly depending on job site conditions.

There are several variables to consider such as ambient temperature, exposure to direct sunlight, & wind. The best way to judge when it is time to compact is to keep an eye on the surface of the DG. As soon as you notice littles specks on the DG surface from drying its time to compact.

If feasible do a small area at first so you can get feel for the process.

Be careful with the depth of your DG. If you end up with a depth of 2-1/4" instead of 2" you are going to need about 6% more DG and Terrakoat EX in order to bind properly