Black Granite doctored?

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Hi, I have a black "granite" countertop. I know that it's not granite but I'm not sure exactly what it is. It seems like everything is staining it. It is sealed. The builder sealed and I sealed it once myself. I have several water stains from glasses as well as what appears to be an etch left by a pot (you can actually feel the scratch mark). Is there anything that I can do about the water stains? It seems crazy that even after it's been sealed you can't even put a glass down on it. Thanks.

Dear Michelle:

You fabricator did not seal your countertop, and you did not seal it, either. Nobody can seal black "granite―. Nobody. All one can do is smear some useless (under the circumstances) impregnating sealer on it, but that doesn't mean that one's actually sealing it.

To understand better, read this:

DEFINITION OF SEALER FOR STONE

For starters, when referred to stone the word sealer is wrong. Well, technically it is not, but the reason why I said that's wrong is because sealers for stone are totally different from any other sealer that most people are familiar with. A sealer is perceived like a topical coating of sorts that's meant to protect the surface of the sealed object from traffic and spills, to produce a finish (polished, or matt, or satin) and to fill all little nicks, fissures and other surface imperfections.

A sealer for stone is none of that – None!

And that is why I said that the word sealer is wrong when referred to stone. The right word is **impregnator**.

An impregnator is a below-the-surface (of the stone) sort of sealer. It's a product made of two major components: a resin of sorts that could be silicone, siloxane, silane, ester epoxy, alphatic fluorochemicals, acrylics, etc., plus a carrier, that could be a petroleum-based solvent or simply water. The resin is dissolved by and within the carrier.

What does an impregnator do, and how does it work?

The only thing that an impregnator does is reducing dramatically the natural absorbency rate of the stone by somehow filling the spaces between the single molecules of minerals composing the stone, which are known as **pores** - End of the list of performances. This reduction of absorbency rate (or porosity) of the stone will make so that possible staining agents that may get spilled on the stone will be kept at bay on the surface of the stone for a period of time much longer than if the stone was not sealed.

The way it works is that the solution goes inside the stone, the carrier (solvent or water) evaporates and the resin stays in and cures, thus partially clogging the pores of the stone.

_The most important phase of the application of an impregnator is the total and thorough removal of its residue that was not absorbed by stone from its surface, before it has a chance to dry, so that at the end of the sealing job the surface of the stone is <u>as bare as it were before the sealing procedure was started.</u>

The immediate, obvious consequence of that is we're not talking about a coating, but rather an application.

Next, the question is: how does an impregnator go inside the stone?

Quite simply, by being absorbed by it.

So far we've learned a couple of important things: 1. That a sealer for stone only help preventing deeply imbedded stains by delivering a reaction time, which is how much time you'll have to blot the staining agent off of the stone surface before it begins to sink in. (The better the quality of the impregnator in relation to the stone to be sealed, the longer the reaction time will be.) 2. That because of the way it was designed and works it cannot $\hat{a} \in$ and in fact does not $\hat{a} \in$ offer any protection or improvement whatsoever to the stone surface.

Next, we have now to talk about the natural absorbency of stone.

This side of single-crystal rocks (i.e.: gemstones), every multi-mineral stone is somehow porous. However, while there are stones that absorb liquids like sponges, there are stones that are naturally so dense that no liquid is thin enough to be absorbed by them. The latter types of stones $\hat{a} \in$ which are quite a few $\hat{a} \in$ can't be technically sealed, because no impregnator will ever stand a chance of being absorbed by them. On the other hand, since they won't absorb any liquid, it is pretty intuitive that they will never get stained.

What is interesting noticing is that while certain stones have an absorbency rate that indicates their ability to absorb liquids (above 0.2%), in fact they don't absorb anything due to their dramatically increased surface tension once polished. For example, travertine is rated at 0.4% to 1.0%. In its rough form it does absorb liquids, though slowly; but if you polish it, it effectively will not absorb a single drop of anything. In fact, nobody ever reported any stain on a polished piece of travertine. (In its hone-finished form, however, travertine may $\hat{a} \in$ and just *may* $\hat{a} \in$ absorb something.)

In conclusion, only a certain number of stones can be sealed and, more importantly, the performance of an impregnator is only limited to the reduction of the stone natural absorbency rate if it is $\hat{a} \in$ even when polished $\hat{a} \in$ above the 0.2% cut off point.

How does the average consumer know if their stone could be possibly sealed without that kind of information? It is quite simple and down to earth: spill some water in a couple of spots of the stone to be tested, let it dwell for 10 minutes or so, wipe it dry and observe if the areas under which the water has been sitting have become (temporarily) any darker than the rest. If so, if the stone is installed in an environment where staining spills are likely (i.e.: a kitchen) the application of a good-quality impregnator is recommended. If not, or if the stone is to be installed where the likelihood of spillage is minimal or nil altogether, it would be a totally useless exercise that will only help to put the kids of the impregnator's maker and its distributors through college.

And now that you know better, let's talk about your "stains―.

A stain $\hat{a} \in$ a real stain $\hat{a} \in$ is always darker than the stained material. If it is lighter, it's either a mark of corrosion created by an acid (etching), or a caustic mark created by a base (bleaching). There are no known exceptions to this rule. In the case of natural stone, bleaching can't occur, and therefore they are etch-marks all the time: plain and simple surface damages, like shallow chemical scratches.

<u>And now that we know this, too, the only conclusion is that, most likely, your "black― "granite― is not black at all. It is probably a maliciously doctored stone and the light "stains― that you see are the real color of the stone</u>

<u>under the black "shoeshine― they applied to it to make it appear black. Do log on at: www.doctoredstone.org to</u> <u>understand what I'm talking about. And if you need technical assistance to fight the "good people― who sold that</u> <u>dog to you, feel free to contact me at: mail@mbstone.com.</u>

It is a criminal activity that's been going on for a quarter of a century already, with the tacit consent of the industry establishment. And if you won't fight it, they will keep doing it over and over again.

Black "granite― should be one of the most enjoyable and "bullet-proof― stones available; not certainly a maintenance nightmare like you have.

May I ask you now to please read and e-sign our Statement of Purpose at: http://www.marblecleaning.org/purpose.htm ?

Ciao and good luck,

Mauri z io Bertoli

www.marblecleaning.org – The Only Consumers' Portal to the Stone Industry Establishment!