

FAKE?





Wood Mold



Super- Plasticizer



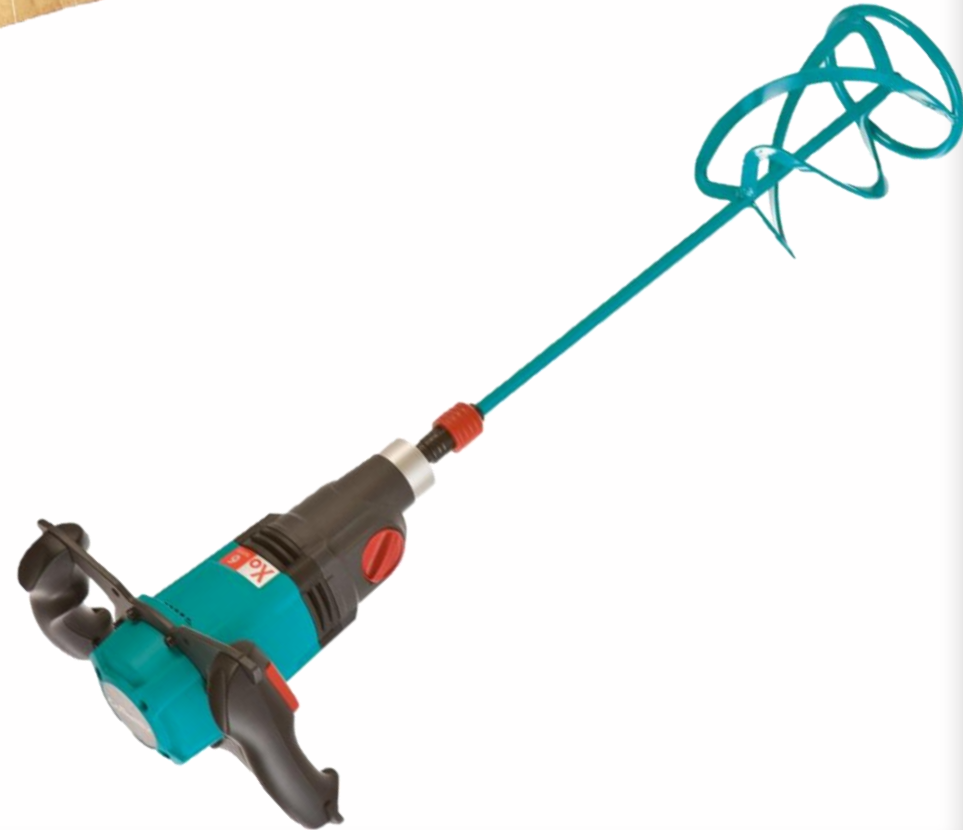
CSA

Heavy
Duty
Bucket



Hand
Mixer

Oxide
Pigment



Non

Aerosol

Sprayer



G1

Release



Eco

Stain

HS200 Sealer



Foam Roller

Pump Sprayer



Materials & Additives

Most concrete additives are dosed based on the cement weight, not the concrete weight as a whole. This makes getting the right dosages tricky when using premixed bags of concrete, which is why we like to make our own mix design. The optimal mix for mold casting usually consist of 2-3 parts sand, to 1 part cement. Gravel is optional but will result in more bugholes in the finished product. All GlobMarble molds have a detailed dosage instructions in the describing of their page.

How to Make Concrete Stone Instruction

WS 5002 Stone-casting Instructions:

Always apply **release agent** to your mold prior to casting concrete.

WS 5002 mold casting weight is about 39.73 lbs. (18.04 kg.)

We use this 1:2 cement to filler ratio mix : (you can also mix 1-part Portland cement to 3 parts sand [filler], but plasticizer and water has to be re-calculated by cement weight)

13.24 lbs (6.01 kg) Portland cement (white for light stone colors, gray for dark stone colors)

26.48 lbs (12.03 kg) Sand (20-30 mesh recommended. Silica sand or "all-purpose" sand works great)

52.97 oz (1.44 L) Water (We recommend water to be 20%-30% of cement weight.) (If your mix is too liquid, use less water.)

2.12 oz (60.13 g) **Super-plasticizer** (Superplasticizer's dosage rate is 0.5% -1% of cement weight. We are using 1%)

For best result always add **dry pigments** to your mix prior to adding the water. Mix concrete with pigment and additives for a few minutes, then add water (mix at least 3-5 minutes). You can also add Super plasticizer to the water 10-15 minutes prior to casting, then mix with dry ingredients.

Please note: Concrete minimum mixing time is 3 minutes (it takes a few minutes until Super Plasticizer absorbs into the cement and start reaction)

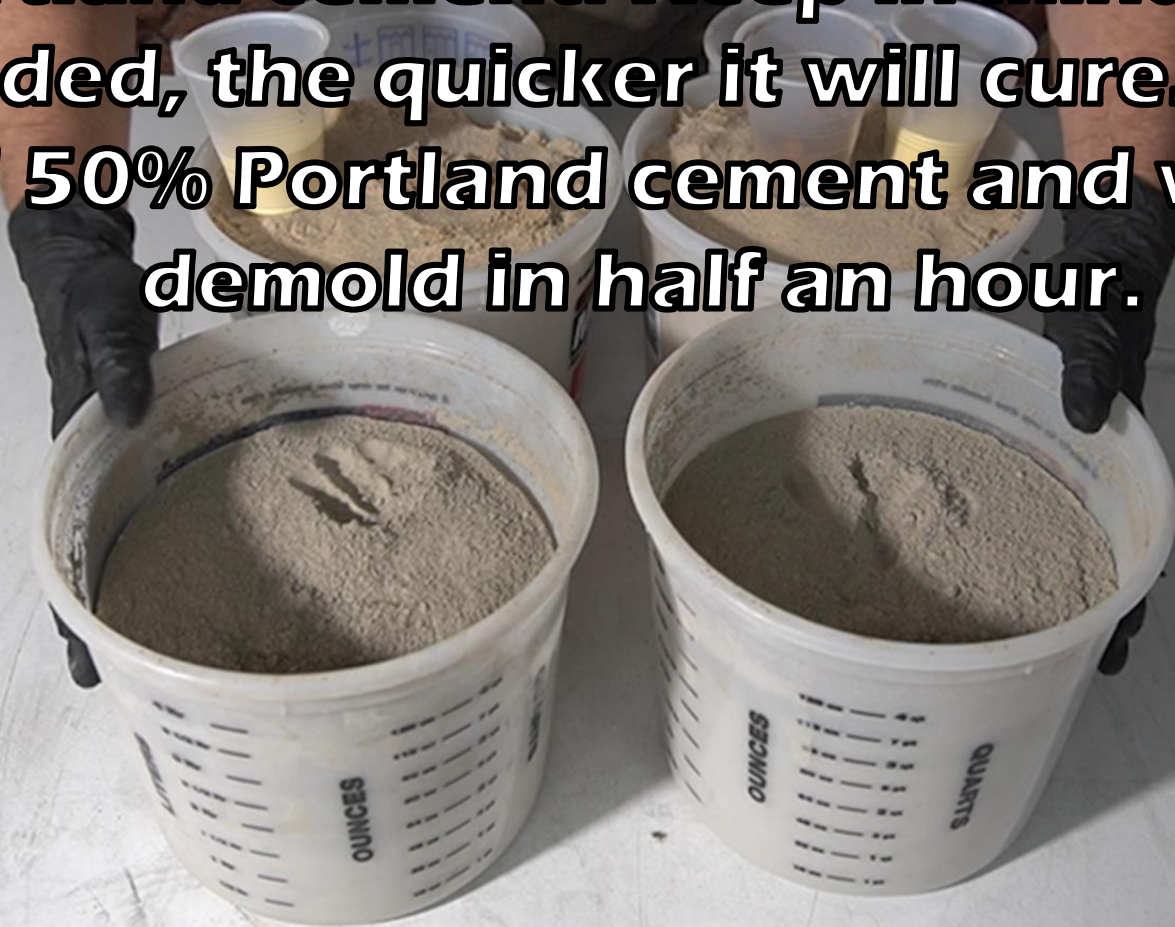
To color different molds sections, brush oxide pigment over the selected sections, then cast the concrete.

Cover the mold with plastic while it is curing. Remove the stone from the mold in 12-24 hours



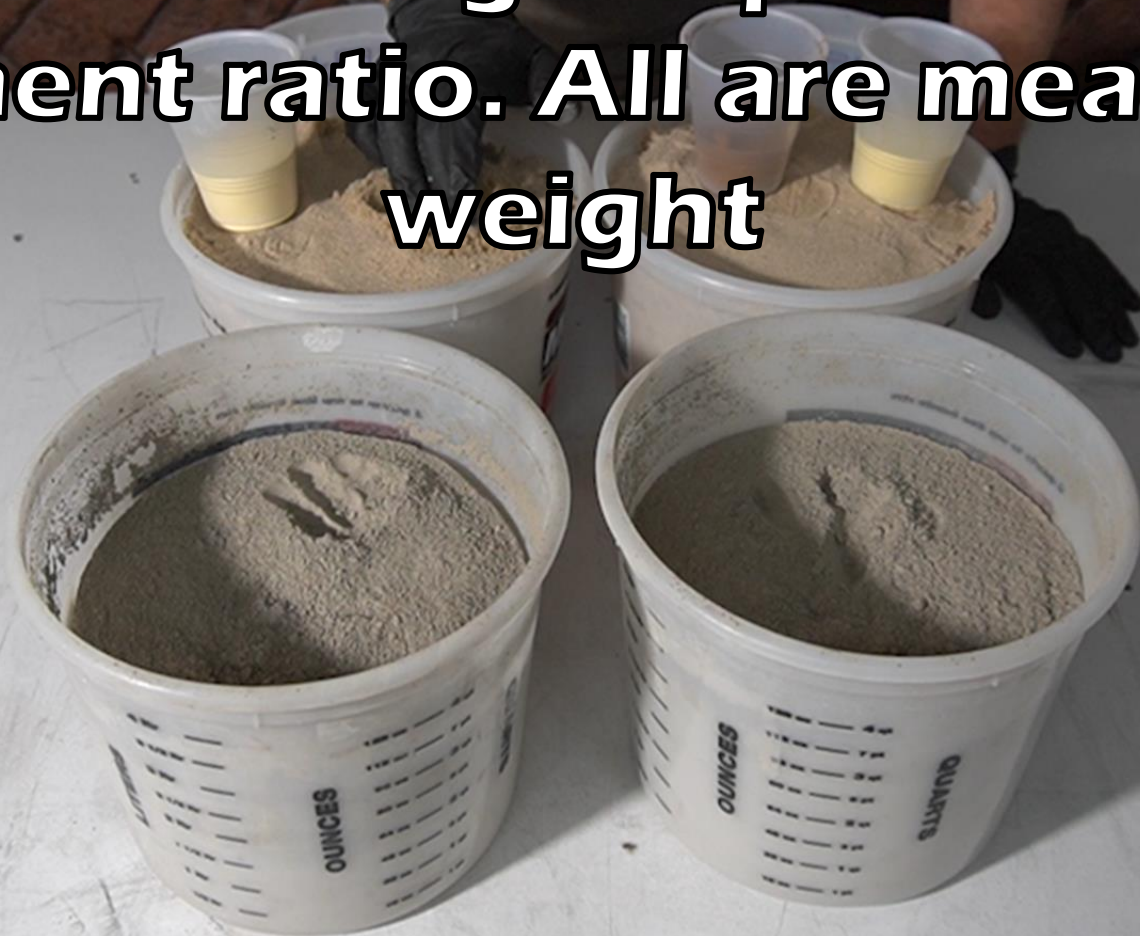
1

The first additive I will be using is a fast setting additive called CSA. It can replace up to 100% of your Portland cement. Keep in mind, the more CSA is added, the quicker it will cure. I used 50% CSA and 50% Portland cement and was able to demold in half an hour.

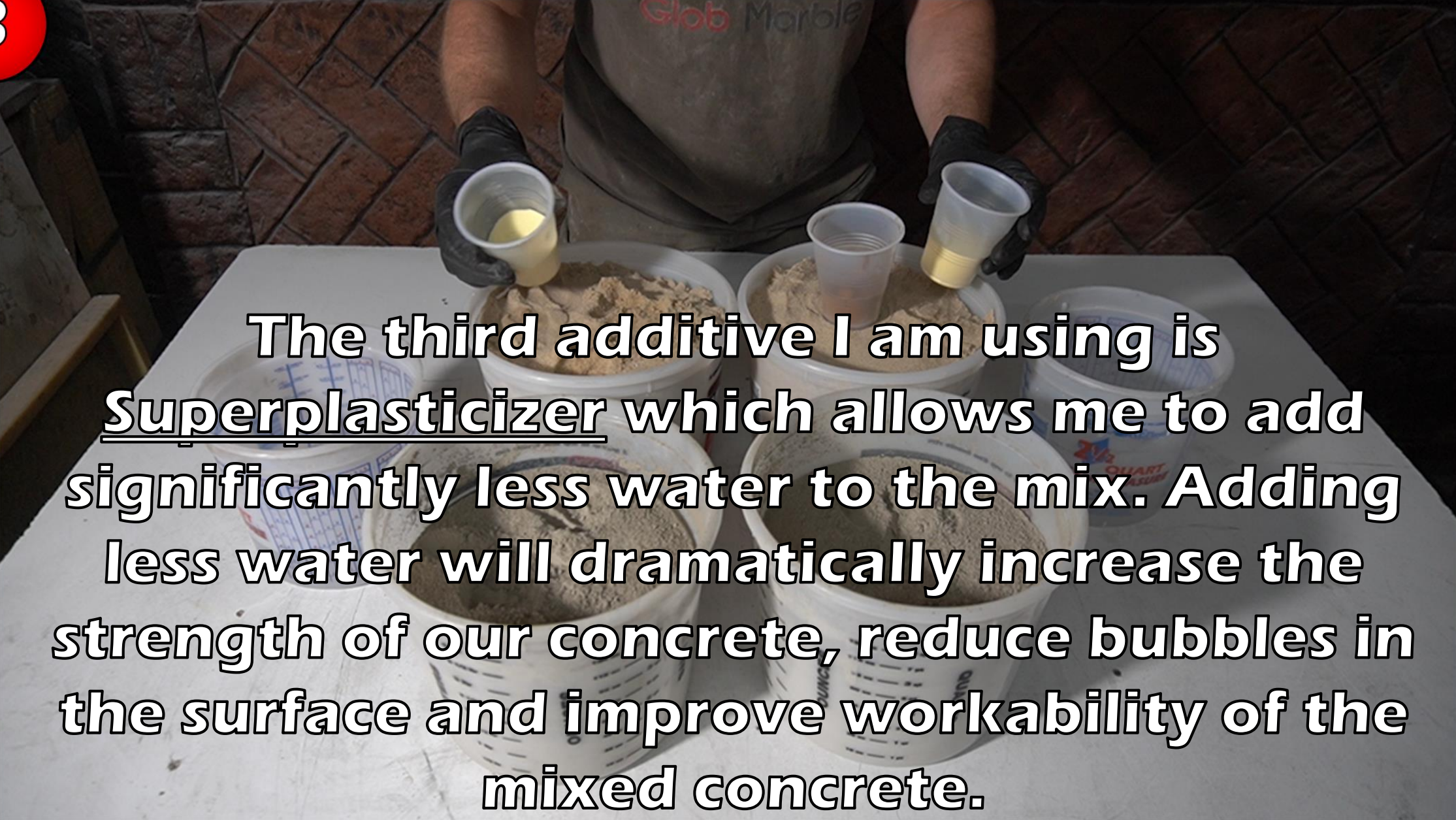


2

The second component of the mix is sand. I am using a 2 part sand to 1 part cement ratio. All are measured by weight



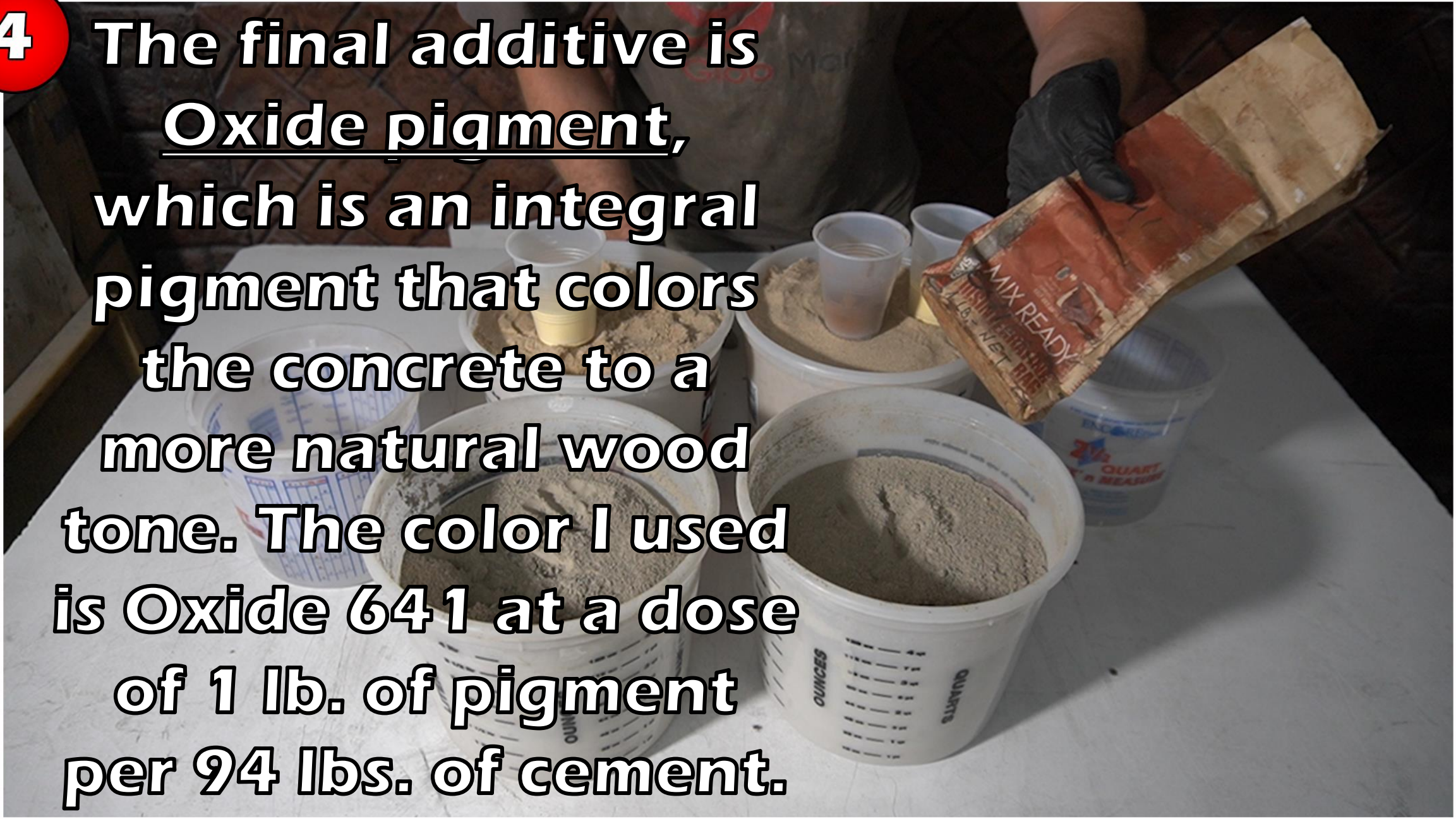
3



The third additive I am using is Superplasticizer which allows me to add significantly less water to the mix. Adding less water will dramatically increase the strength of our concrete, reduce bubbles in the surface and improve workability of the mixed concrete.

4

The final additive is Oxide pigment, which is an integral pigment that colors the concrete to a more natural wood tone. The color I used is Oxide 641 at a dose of 1 lb. of pigment per 94 lbs. of cement.



Different Coloring Options

\$\$\$ Adobe 61078	\$\$\$ Autumn Gold 5844	\$\$ Baja Red 160	\$\$ Rayou 6130	\$\$\$ Brick Red 160	\$ Canyon 160	\$\$ Caramel 6455
\$\$ Cliffside Brown 6804	\$\$ Cobblestone 860	\$\$ Cocoa 6130	\$ Dark Gray (Carbon) *8084	\$\$\$ Dark Gray (Iron Oxide) 860	\$ Dune 6058	\$\$ Eastern Tan 61222
\$\$\$\$\$ Euroblue (Cobalt) 418	\$\$\$ Flagstone Brown 641	\$\$\$ Granite Red 1395	\$\$ Graphite (Carbon) *8084	\$\$\$\$ Graphite (Iron Oxide) 860	\$\$\$\$ Green Slate 3685	\$\$ Harvest Gold 5084
\$\$ Jet Black (Carbon) *8084	\$\$\$\$ Jet Black (Iron Oxide) 860	\$\$\$ Kallua 677	\$\$\$ Lakeside Brown 6804	\$ Light Gray (Carbon) *8084	\$\$ Light Gray (Iron Oxide) 860	\$\$ Mesa Buff 5447
\$\$ Mesquite 677	\$\$ Miami Buff 5447	\$\$ Mocha 6058	\$\$ Omaha Tan 5084	\$ Outback 677	\$\$\$ Padre Brown 61078	\$\$\$ Palomino 5447
\$ Pebble 641	\$\$ Pewter 860	\$\$ Plum 1395	\$\$ Pueblo Brown 61078	\$\$ Roadside Brown 6804	\$\$ Rustic Brown 6058	\$\$ Salmon 10134
\$\$ San Diego Buff 5237	\$ Sandstone 5237	\$\$ Sangria 1117	\$ Santa Fe 1117	\$\$ Sequoia Sand 641	\$\$ Sierra 61078	\$ Silversmoke (Carbon) *8084
\$\$ Silversmoke (Iron Oxide) 860	\$\$ Southern Blush 10134	\$\$\$ Spanish Gold 5084	\$\$ Sunset Rose 160	\$\$ Taupe 677	\$\$\$ Terra Cotta 10134	\$\$\$ Tile Red 1117

Coloring options are practically limitless when working with concrete. The first decision is deciding which oxide pigment to use, or whether to use oxide pigment at all. The benefit to using these pigments is an even color throughout the entire piece of concrete which will ensure damage is much easier concealed as apposed to exclusively topical colors. I will cast one plank with pigment, and one with regular gray concrete.

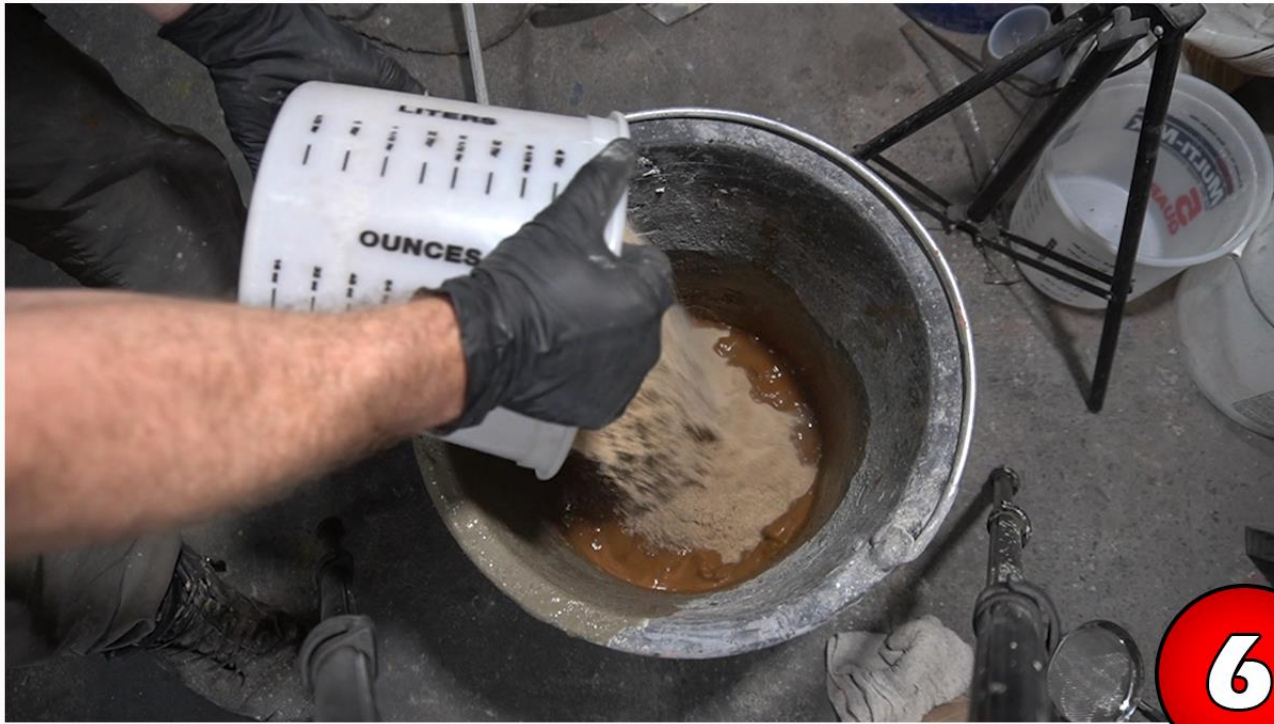
**It is best to mix
all additives
into the water
first**



5

**This ensures
consistent color
through out the
concrete and a much
quicker mixing time**





**Add the sand first
and the
CSA/cement
afterwards**

6

**This prevents CSA from
quickly hardening and
sticking to the
bottom/sides of your
bucket**



Mix the concrete thoroughly, scrape the sides/bottom of your bucket to prevent unmixed material, and mix again




The Superplasticizer takes a few minutes to take effect & bond with the cement molecules



7



8



Spray release agent onto the mold to prevent the concrete from sticking. A non-aerosol sprayer is the best release sprayer as it sprays a very fine mist



**Pour the concrete
into your mold
quickly as the CSA
is taking effect**

9

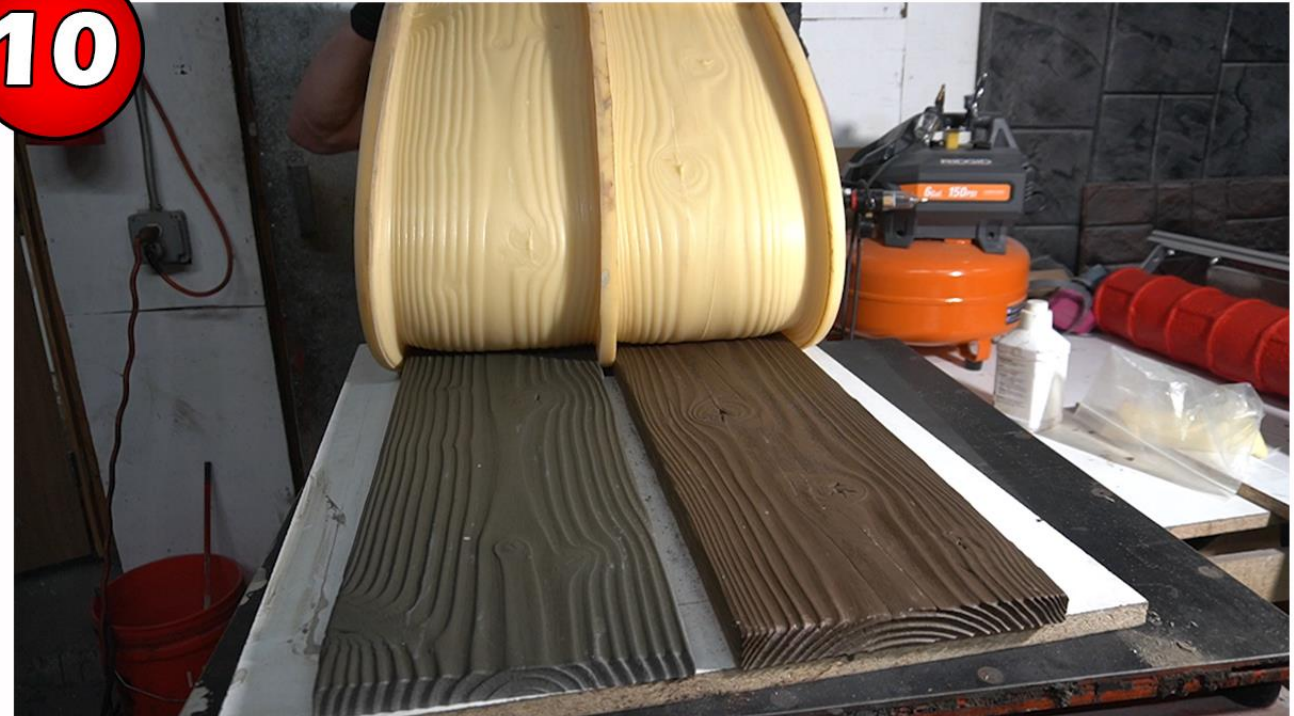
**Vibrate the concrete
on a vibration table
to remove bubbles
from the surface of
your stones**





Demold time can vary based on temperature and CSA dosage

10



CSA

Set Time

20%

65min.

30%

32 min.

40%

23 min.

50%

18 min.

60%

13 min.

100%

11 min.



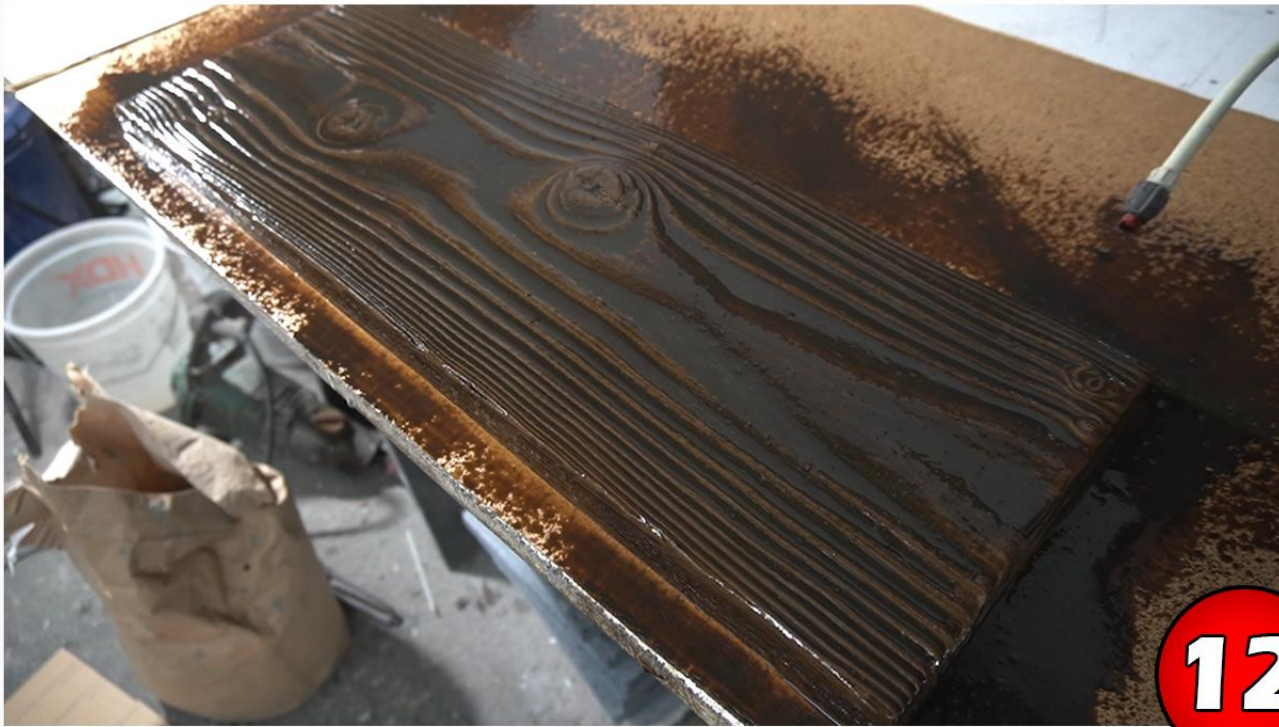
Secondary Coloring

Using a stain is an excellent way on making your wood planks look more realistic. The stain will pool in the deeper points of the wood making it darker while keeping the peaks and ridges light, giving a nice accenting effect. EcoStain is a water based stain which can be easily touched up. It is a concentrate and is designed to be diluted at a ratio of 1 part stain to 3 parts water. This ratio can be changed depending on the color intensity desired.

11

After you have diluted the stain, pour it into a pump sprayer. A pump sprayer allows a continuous stream of stain to be sprayed without needing to constantly pull the trigger on your sprayers nozzle





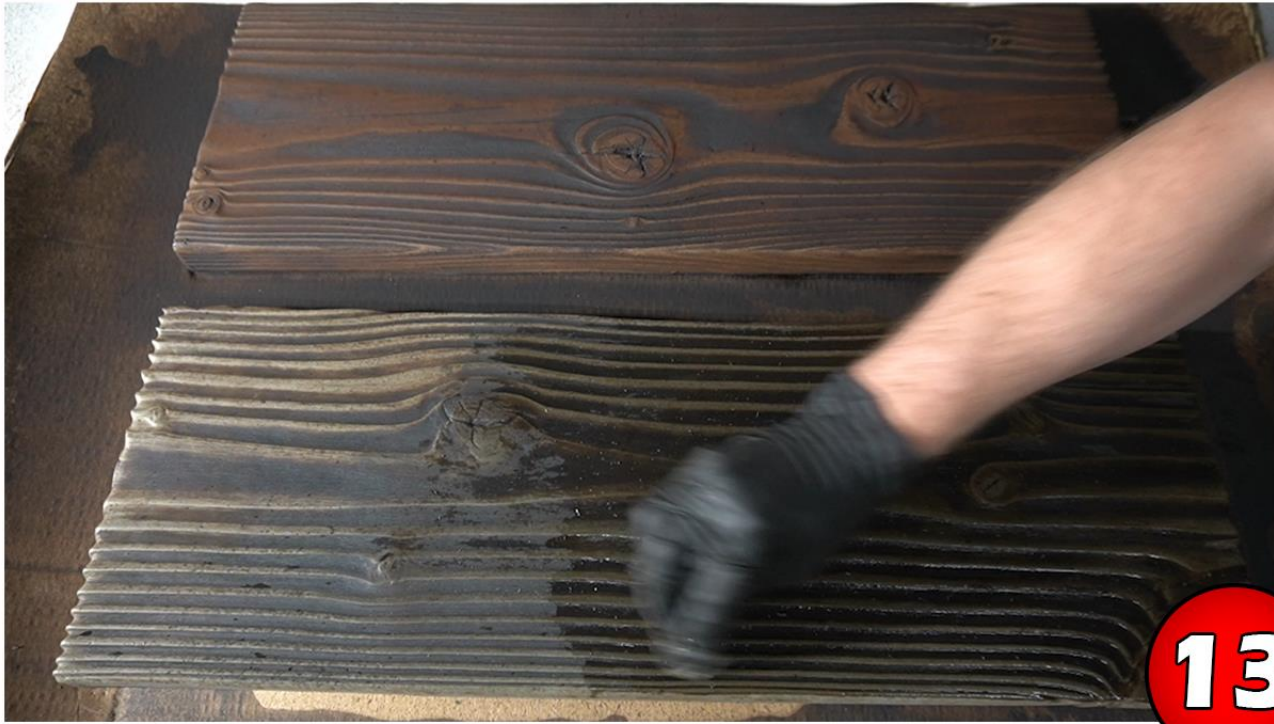
**I sprayed stain
on both
concrete planks**

12



The one without oxide pigment looks more like aged wood, while the pigmented one looks more vibrant

The EcoStain can be manipulated with water after it dried to get a more realistic effect



13

I tried to mostly wash the stain off of the wood peaks to give the plank more contrast between colors



Sealing The Concrete



The EcoStain needs to be locked into place so it does not wash off. A good concrete sealer will make the stain permanent, protect the concrete from scratches, and also make the colors pop and look more vibrant. You can either use a high gloss sealer or a matte sealer



14



**Pour and
roll the
sealer
onto the
stones**

**All
done!!**

WATCH THE FULL VIDEO HERE

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