

Instructions: Make your own Slurry that does not need to be stirred continuously.

Necessary

Binder (White Liquid) called Adbond Advantage
Silica Flour / Quartz Glass Powder 325 mesh (is better than 200 mesh)
Suspension (powder) (Shell Spen)
Color/Drying Indicator (Liquid)
Container for at least 30 liters.
Sieve (not necessary, but better)
Cement drill or other powerful mixer for initial mixing and periodic mixing

Procedure for 27-33 liters of slurry.

- 1) Take 25kg of fused silica flour, 200 mesh or 325 mesh.
- 2) Mix the **entire** contents of one sachet of suspension powder with the 25 kg of this flour. So this is a dry mix.
- 3) Take 25kg of the Adbond liquid (or 21 litres) and pour it into a container large enough to hold 30 litres of slurry and extra space for mixing!
- 4) Add the dry mixture (silica and suspension agent) to the Adbond binder through a sieve.
- 5) Mix until everything is homogeneous. This will take about 15 to 30 minutes. Test every 5 minutes to see if there are still a lot of dry grains on the bottom. If yes, then continue mixing.
- 6) Add a drying indicator, maximum 100 ml per 25 kg of Adbond liquid.
- 7) Mix again briefly.
- 8) Let the slurry sit for at least 1 hour, preferably overnight.
- 9) For best results, strain the slurry all over again so that no lumps remain in the slurry.
- 10) Before you want to use or measure the slurry (viscosity or density or pH) it must always be mixed well again. If the slurry is too thick, add more Adbond Advantage, if the slurry is too thin, add silica flour. Always do this in small steps, then mix well and wait half an hour. Measure the viscosity again. Don't forget to mix extra Shellspen powder together with the extra silica flour!
- 11) The slurry is now ready. Please mix before use and seal when storing.

It makes sense to check the viscosity every time before use (and after mixing) so that you know in the future which casting results you will get at which viscosity.

To thicken the slurry: Add more fused silica flour AND Shell Pen powder

To make the slurry thinner: Add more Adbond binder.

NOTE, if you only add part of a bag of flour, you should only add part of the Shellpen powder. BUT then the Shellspen powder must first be mixed very well in its own packaging so that all active components in the Shellspen package are evenly distributed!!

A slurry has a shelf life of at least 6 months (if you mix briefly once a week). The individual components (binder, powder, flour) have a shelf life of at least 3 years.

Adding demineralized water should ONLY be done to compensate for the evaporated water. You can measure this by measuring the height of the slurry after use and measuring the height again before the next use. The difference in height of the surface is the amount of water lost through evaporation.

Information

The most commonly used properties of the slurry are:

Density 1.5-1.8 kg/litre

Viscosity 25 seconds in Zahn cup 4.

pH >9.5

Density of Adbond Advantage 1.17 Kg/liter

This manual is a starting point. It will result in quite a fluid slurry. It is very likely that you prefer a slightly thicker slurry. In that case you can increase the flour (don't forget to use the Shellspen powder too).

Contact

If you have any questions, please do not hesitate to contact us by email or phone.

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