



OWELL STONE



What is Owell® Composite Acrylic

The material Owell® Composite Acrylic is artificial material. It represents composite acrylic resin, made of natural ore powder, high performance acrylic resins. It can be used for public buildings (hotels, hospitals, showrooms, experimental rooms, etc.) and for domestic decoration (kitchen countertops, commode Countertops, kitchen and bath walls, tables, etc.).

The sheets Owell® Composite acrylic has the elegant look of marble, but can be cut, drilled, worked on, bent as wooden solid sheets and chipboard, with traditional carpenter instruments.

With its beautiful color range, the solid sheets Owell® Composite acrylic can be glued without any seen marks, so it reaches every customers' unique requirements, desires, and designer ideas. All sheets are sold with the glue needed for edge-banding and processing, in corresponding color, which gives the opportunity for making invisible saws.

The standard dimensions of the sheets Owell® Composite acrylic are 2400*760 mm, thickness - can be 6mm, 9mm, 12mm. Solid sheets can be produced with lenght 3050mm and 3600mm. Owell® Composite acrylic are harmless, without any radioactive pollution, the best possible choice for home decoration. Much more than kitchen countertop - the furniture, produced with Owell® Composite acrylic, protects the environment, and serve your home for many years. With this material you get complete purity, long-lasting use, also hit-resistant and stain-resistant.



What are the Owell® Composite Acrylic' advantages?

- + Can be cut, drilled, polished, bent as wooden sheets
- + In the processing are used traditional carpenter' tools
- + Stain-resistant
- + Water-resistant
- + Homogeneous - when deep processing is used, the material doesn't change its structure
- + Hygienic
- + Harmless
- + Easy maintenance and cleaning
- + Tough
- + Plastic
- + Can be used mate, semi-gloss and gloss
- + Ability for invisible saws
- + Set with glue in the same color

How to storage Owell® Composite acrylic?

Owell® Composite acrylic can be stored - horizontal on smooth surface, or vertical - supported On its whole surface. In closed warehouse premisses in normal conditions (temperature inside - Minimum 10°C - 15°C).

Before processing the material should be left on temperature about 20°C - 24°C.



Which are the instruments, needed for processing Owell® Composite Acrylic?

Veneer - press; Glue roller; Hand profile milling machine; Trapezium jagged saw; Cutters; Clamps; Glue/silicone gun; Grind machine; Isopropanol or methyl alcohol; Sandy mill machine; Hand electric drill; Gong machine; "A" model nip; "G" model nip; Polishing machine; Sandpapers.

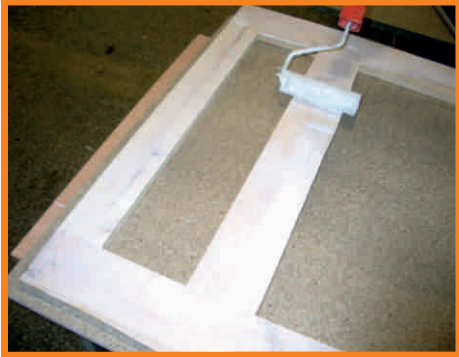
Processing stages of working Owell® Composite acrylic 6mm:

1. Process "Cutting out the sheets Owell® Composite acrylic"

The across cutting is made with cornert machine, as well as any other cut machine.

2. Process "Production of the base"

To reach a sheet with thickness 40mm, you need to prepare base with thickness 33÷34mm. The base can be chipboard (for example 25 + 8 mm), massive frame with fill, chipboard + MDF, etc.

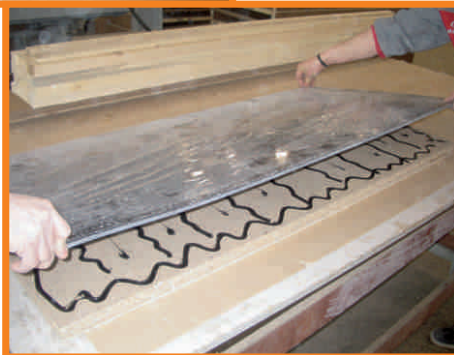


OWELL STONE



3. Process "Glueing Owell® Composite acrylic with the base"

The glueing of the Owell® Composite acrylic together with the prepared base for it - with silicone "SikaFlex 11FC". "SikaFlex 11FC" is laid uniformly over the base then you put the 6mm sheet Owell® Composite acrylic, as in advance it is cleaned from dust and any possible pollutions both surfaces are pressed together manually they are put on a cold press they are pressed with strength of 110 bar-s, for a period of 60 minutes.



Processing stages of working Owell® Composite acrylic 6mm:

4. Process "Fixing the size/ formatting"

After the countertop is ready, it is cut out with corner machine, to the size desired, as you have to leave additional 6mm for edging, where needed.

5. Process "Edge-banding of Owell® Composite acrylic and base"

For glueing the edge-band you have to prepare mixture in proportion 20 parts form the coloured glue with 1 part hardener, and are mixed to homogeneous mixture.

You cut stripe with width, equal to the width of the countertop + 3÷4mm. These are used for bands. Carefully the band is pasted with the glue mixture, but before that all surfaces are cleaned from dust and pollution, with ethyl alcohol.

The edge-band is pressed to the countertop, and it is better if the band is sticking over and under with 2mm. The countertop with the band are pressed with carpenter's clamp, so the glue comes up. The time needed for sticking is about 15÷20 minutes on temperature 20°C÷24°C.

The countertop should be cleaned in advance, on the place of the banding.



6. Process "Grinding"

By hand gong machine you take away the rough sticking out of the edge-band. The countertop worked is ready for grinding. The grinding itself is made with banding gring or sandy mill machine with sanding paper № 400 at first, and afterwards – with № 800.

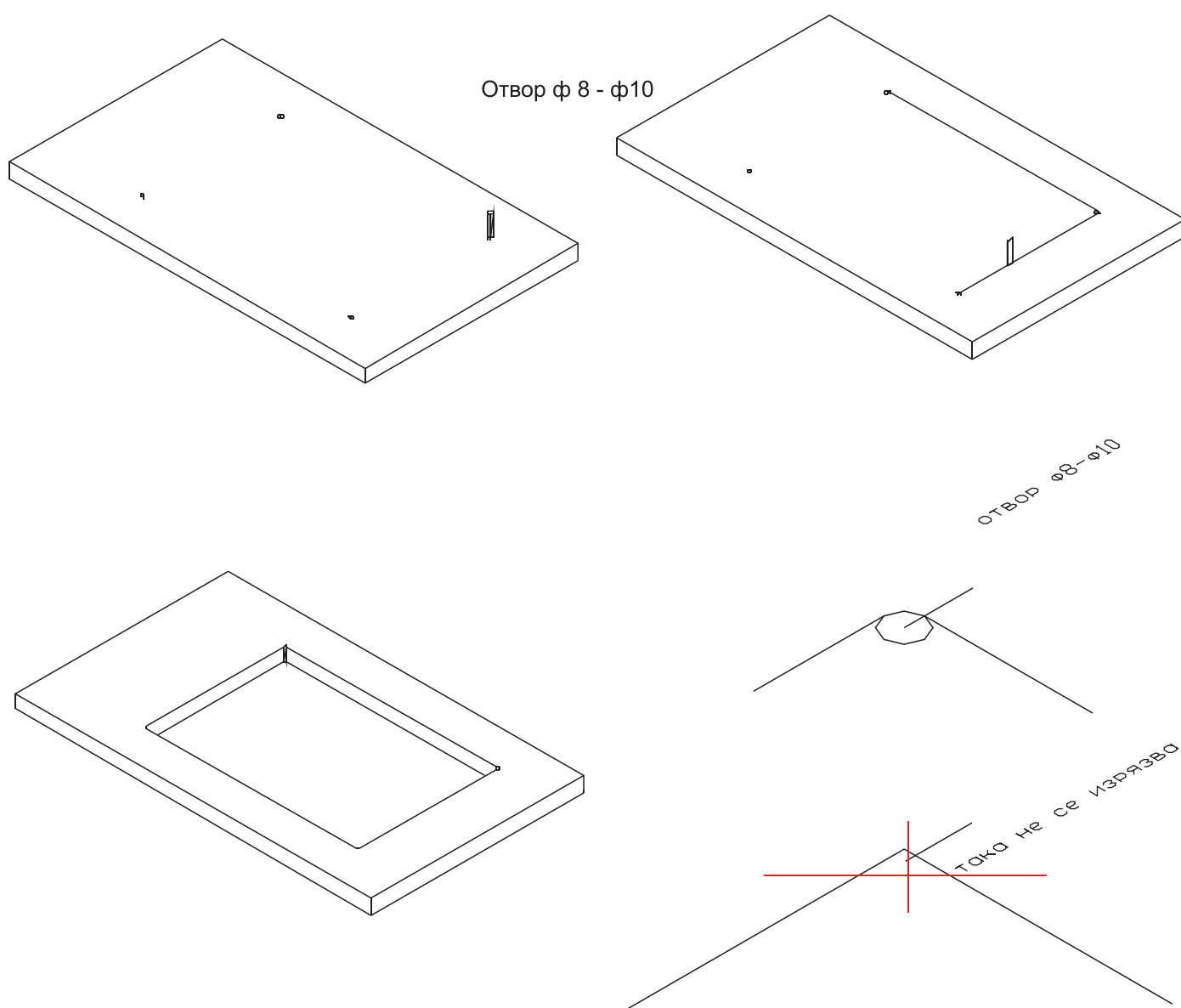


7. Process “Making hole for built in appliances”

The making holes for built in appliances and sinks is made with mould is drawn contour of the future hole. At the four ends of the holes are drilled perforations with drill, size 8 to 10 mm diameter.

The lines of cutting are common with the holes. The cutting of the lines between the drilled holes becomes with shuttle saw. Cutting of 90° without rounding is forbidden.

(There is remained tension and could bring along to cracking of the material.)



8. Process “Joining of two ready countertops”

Fitting kitchen and other countertops at the spot, the countertops are prepared at the same way, as well as the known kitchen countertops, but before they get joined, the places of joining are cleaned carefully, they are pasted with glue mixture, and are pressed for 15÷20 minutes, on temperature 20°C÷24°C, so the glue mixture comes up from all sides at the zone of joining.

When the joining is finished, the sewing is cleaned with grinding шлайфане с sandy mill machine with sanding paper № 400 at first, and afterwards – with № 800.

Processing stages of working Owell® Composite acrylic 6mm:

9. Process "Corrections of ready countertops"

If by any reasons there is gap left at the places of joining, zones of edge-nading or anywhere else, with the help of sharp or other knife, the gap is expanded with 2÷3mm and after that is filled with glue mixtures. When it is dry, it is grinded.

Corrections of installed and used countertops also can be done. For this purpose with gong is cut out the zone deformed, but the requirement is the removed part from the surface of the Countertop has to be with regular shape (circle, square, rectangle) and depth, equal to the width of the Owell® Composite acrylic – 6mm. The place is cleaned with the ethyl alcohol.

A detail is prepared with the same form with smaller size - 2÷3mm, it is pasted underneath with silicone "SikaFlex 11FC", and on a side on the edge – with the glue mixture, and it is pressed Till the mixture sticks out, for 15÷20 minutes. When it is ready, it is grinded only with sanding paper №800, on temperature 20°C÷24°C.

10. Process "Polishing"

In order to reach desired outlook, are used different types sanding paper, polishing mashine and pastes – by choice:

- to get mate effect – with sandy mill machine is pasted for about 30 min/m²;
- semi-gloss - with sandy mill machine is pasted from 30 to 60 min/m²;
- gloss - with sandy mill machine is pasted more than 60 min/m².

11. Process "Processing of curved details"

Owell® Composite acrylic is wonderful for bending. For this purpose the material should be heated up to 130°C÷160°C equally. When it reaches the required temperature, it is placed in mould, made in advance for this purpose, and it is pressed evenly and smoothly, till it gets the desired shape. When it gets cold, the ready Owell® Composite acrylic stays and keeps its acquired shape. When heated and/or bent, the material doesn't change its outlook and structure.



12. Process "Processing of backs for kitchen and break water line"

For a back for kitchen can be used directly the 6mm Owell® Composite acrylic, which can be assembled to the wall. There are holes drilled in the back with drill in advance in the wall. The places of joining to the wall are glued with the glue mixture.

For break water line are used stripes with width by choice – for example 45mm, as also can be used/joined two stripes together, to get width 12mm, or 3 - 18mm.

The lines, shaped by this way, are joined with glue mixture with the countertop, and afterwards with knife is shaped the desired form.



Name of the product group	Colors	Main components		Advantages	Disadvantages	Dimensions
composite acrylic	30 types	liquid:	PMMA RESIN	1. crack resistant	1. popular colors	2400*760*12.2(±0.2) 3050*760*12.2(±0.2) 3660*760*12.2(±0.2)
			UPR RESIN	2. good price		2400*760*9(±0.2) 3050*760*9(±0.2) 3660*760*9(±0.2)
		thick:	AL(OH)3	3. water resistant		3660*760*9(±0.2) 2400*760*6(±0.2)





OWELL STONE



СТРОЙМАРКЕТ