

How to make concrete surface on your model

Some members of Benno's figures forum asked me, how I made the concrete surface on my model of German bunker. If you want to make a model of concrete structure, it's very important to demonstrate wooden plank marks from the formwork (fig. 1). I use a very simple method to achieve such effect on my models. I make a resin sheet (thickness 0,2 – 0,5 mm) with required texture and then glue it on the „walls“ of the structure.



Fig. 1: wooden planks marks on the concrete structure

How to make the resin sheet? Just follow next steps.

Step 1

Take a plastic sheet of minimal thickness 1 mm.

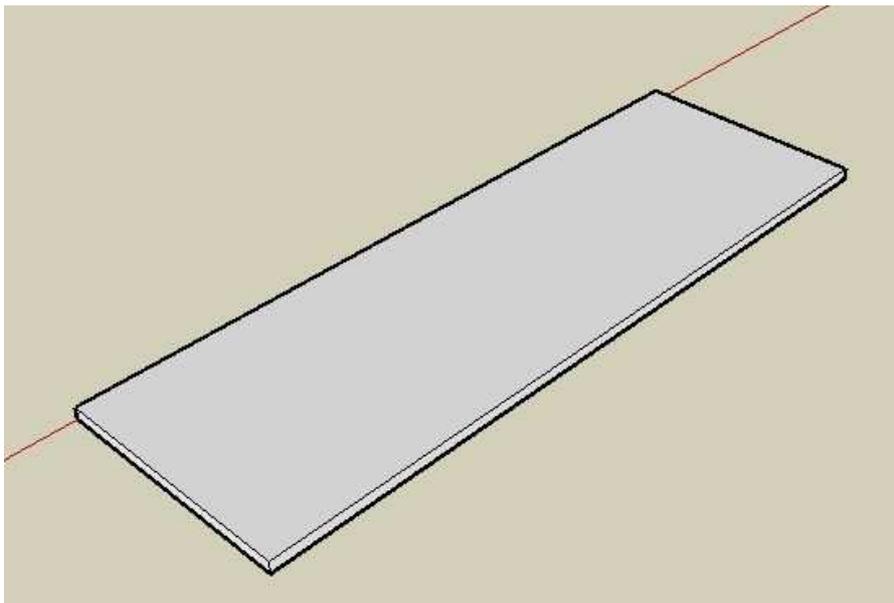


Fig. 2

Step 2

Take an engraver tool or modeller knife and carve narrow slits (fig. 3). If you use a modeller knife, don't do it with the sharp part of the blade. The distance between slits is the width of the planks.

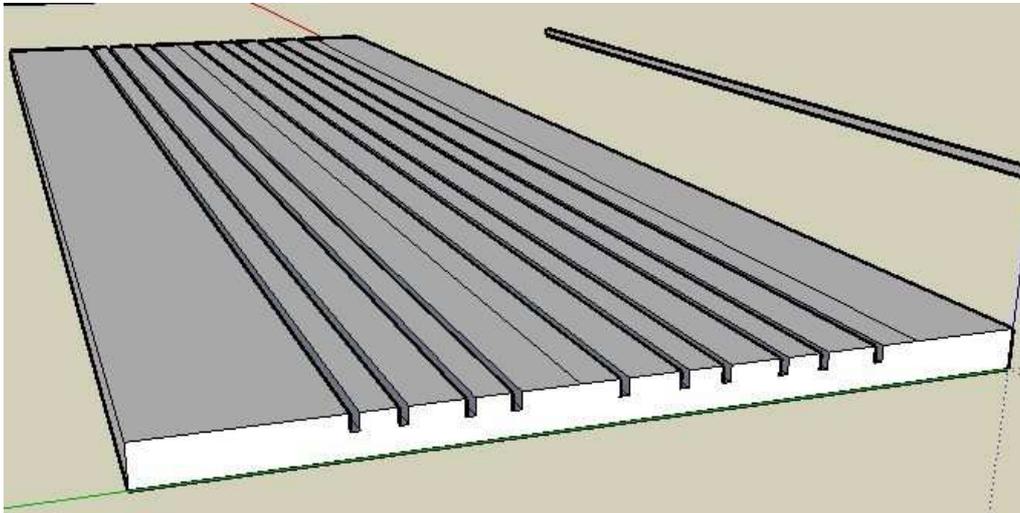


Fig. 3

Step 3

Take a sandpaper, file or modeller knife and make irregular scratches on the surface of the plastic sheet (fig. 4 – brown „wooden“ areas). The surface will look like a wooden plank. Remove all plastic splinters with old paintbrush.

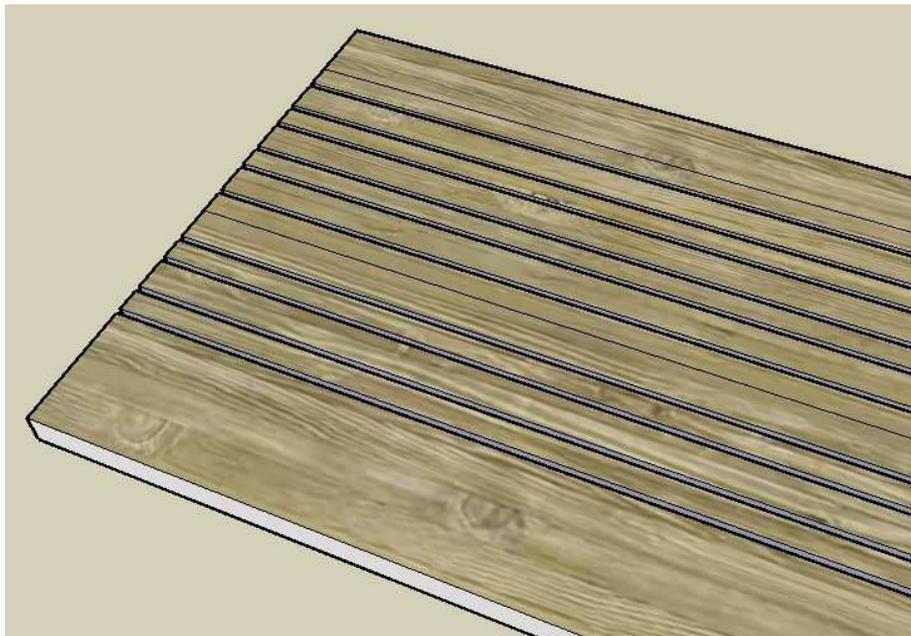


Fig. 4

Step 4

Make a 6 – 8 mm wide stripes from plastic or brass sheet. The thickness of the stripes determinate the thickness of resin sheet. I use 0,2 mm thick brass sheet. Glue the stripes on the perimeter of the sheet made in step 3. The result of previous steps is a mould for casting resin sheets with concrete texture.

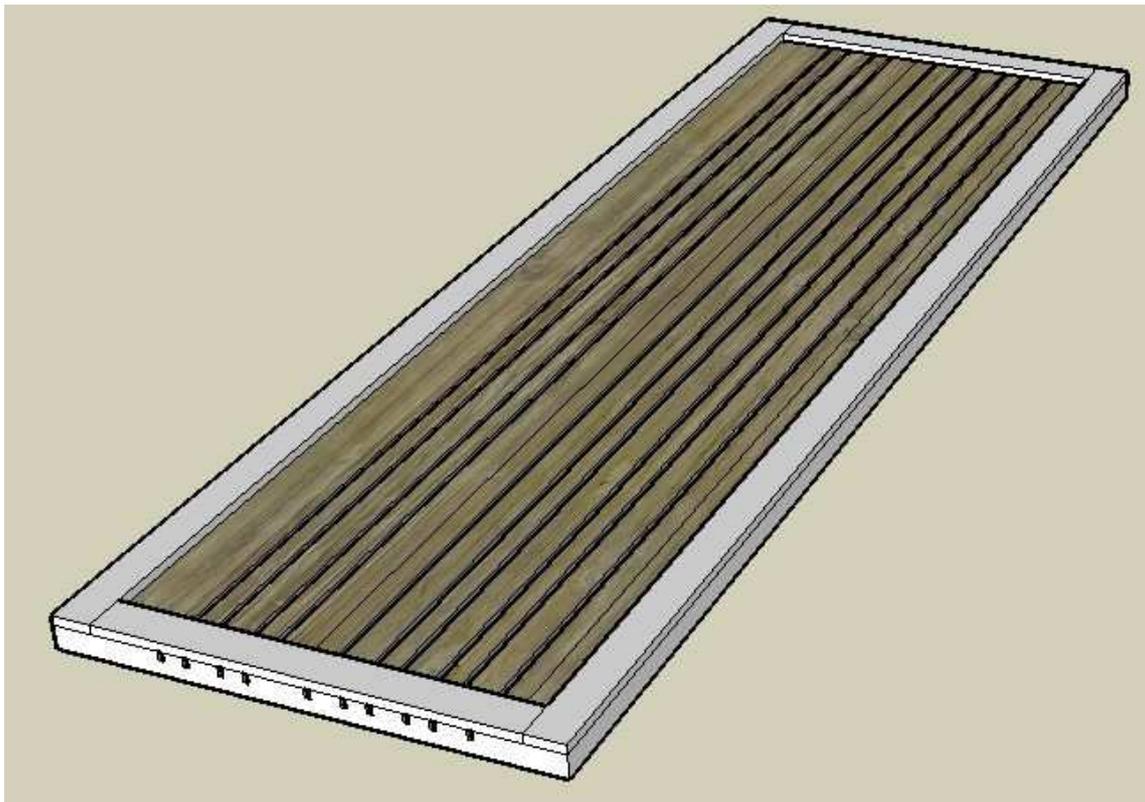


Fig. 5

Step 5

Grease the mould with silicon oil (or something similar). Don't use too much oil!!! Slits in mould must not be filled. Pour resin into the mould and plane it with spatula (fig. 6). Wait until it's dry.

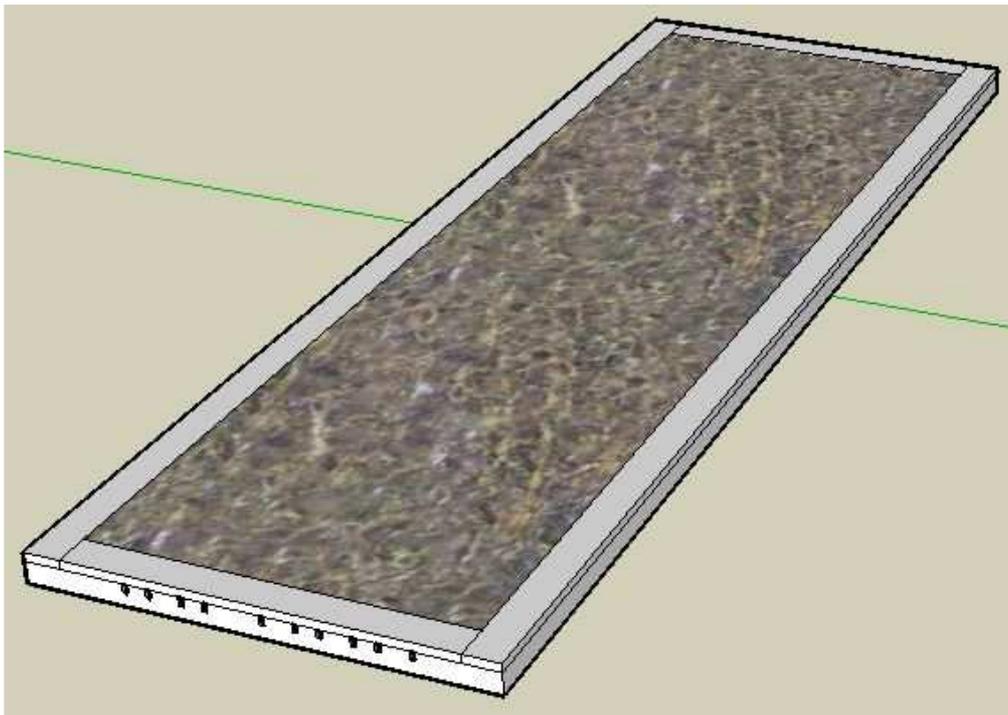


Fig. 6

Step 6

Carefully take out the resin sheet from the mould, degrease it and rough the back side of it with sandpaper. Cut a required piece of plate using modeller saw or knife and glue it on the „wall“ of the structure. Walls could be made from balsa, gypsum etc.

Results could be seen on fig. 7 – 9



Fig. 7



Fig. 8



Fig. 9

More photos of bunker can be seen here:

<http://www.bennosfigures.com/forum/viewtopic.php?t=4676>

Author: Ing. Vladimír Polasek (Alois Nebel)