

INSTALLATION INSTRUCTIONS FOR SYNTHETIC TEAK DECKING ISOTEAK PRO DECK

Isotek Pro Deck is a synthetic deck covering made of PVC with various additives to make the material resistant to external effects such as UV, seawater, contamination etc. The outer texture of the material resembles the texture of wood, which is achieved by brushing the surface.



The underside has non-symmetrical grooves for proper distribution of the sealant and providing a larger bonding surface, as well as special grooves for cutting the material. MS polymer sealant is recommended for installation (*check the compliance table). Not all sealants that are suitable for natural teak are also suitable for PVC materials, so we recommend using only the sealants we have tested.

GENERAL CONDITIONS FOR INSTALLATION

- The deck surface should be smooth, without deep chips or dents and remnants of other materials. Synthetic teak is soft enough to make all the surface roughness visible after installation, so it is recommended to putty and sand all big cracks and irregularities.
- Installation is recommended to be carried out in the warm season or in a warm premises. The temperature of the profile for high-quality installation must be at least 24 degrees Celsius. This makes the material soft and smooth enough to fit better to the deck during installation. Installation in the rain or in cold conditions is highly discouraged, as the material becomes hard and cold, and rainwater prevents normal adhesion of the sealant.
- Before starting the installation, clean the deck surface from dust, oil or other contaminants, with an alcohol.

MOUNTING ACCESSORIES

- Sealant at the rate of 850-1000 ml per 1 m² of surface (this is 3 cartridges of 290-300 ml or 1,5 sausages of 600 ml)
- Glue for gluing profiles together. We recommend using instant waterproof cyanoacrylate adhesive or other adhesives for soft PVC with a longer setting time, if necessary.
- Cleaner for the deck surface. It can be alcohol or light degreasers.
- Gun for applying sealant
- Toothed spatula for sealant with a tooth height of no more than 5 mm. The recommended blade width is 100-150 mm.
- Spatula 5-7 cm wide for applying sealant in narrow places
- Pencil for marking stripes
- The pressure roller. We recommend professional rollers, however you can find alternative options.
- Weights for fixing the edges of the profile. You can use boxes with sealant or other heavy materials at hand.
- Gloves and necessary protective equipment
- Soft cotton cloths to remove excess cyanoacrylate glue and sealant stains, also for wiping the deck before installation.



Option 1: Installation of a deck from the Isoteak Triple Plank roll.

1.1 About the material

Isoteak triple plank profile is 150 mm wide and it goes in a box of 3.0 m² (20 linear meters) or 1.5 m² (10 linear meters). It has a locking joint at the edges to connect the profiles to each other, which increases the waterproofing and strength of the deck covering.

The profile is used as the main one for making panels according to a template, and can also be used independently for the long curved sections, such as a side deck, and for large area surface.

1.2 Preparation for installation.

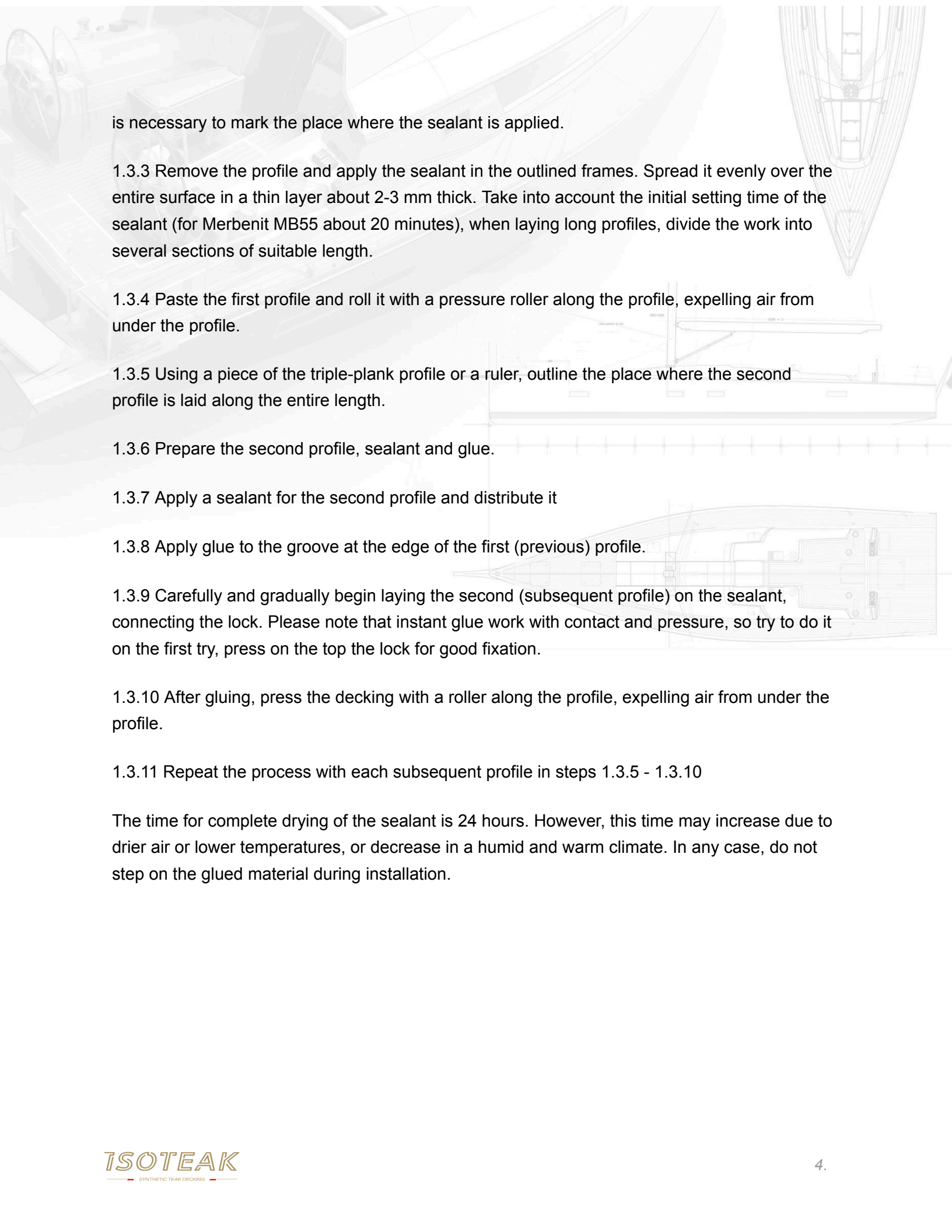
1.2.1 Cut pieces of profile of the required length from the roll

1.2.2 Put the cut profiles on a flat warm surface, in the sun if possible and leave them for several hours to make the material as flat as possible. Depending on the temperature, this process can take from one to several hours. If the temperature is not sufficient to align the material under its own weight, place it under the load.

1.3 Mounting

1.3.1 Pay attention to the triple-plank profile locks. On the one edge, without the black stripe, it has a groove for applying glue. Other edge, with a black stripe, has a corresponding tongue. Make the installation so that each subsequent profile is attached with a tongue to the groove with the applied glue. You can use a torque cyanoacrylate water-resistant adhesive or a water-resistant PVC bonding adhesive.

1.3.2 Place the first profile in place of the sticker and outline its edge along its entire length. This



is necessary to mark the place where the sealant is applied.

1.3.3 Remove the profile and apply the sealant in the outlined frames. Spread it evenly over the entire surface in a thin layer about 2-3 mm thick. Take into account the initial setting time of the sealant (for Merbenit MB55 about 20 minutes), when laying long profiles, divide the work into several sections of suitable length.

1.3.4 Paste the first profile and roll it with a pressure roller along the profile, expelling air from under the profile.

1.3.5 Using a piece of the triple-plank profile or a ruler, outline the place where the second profile is laid along the entire length.

1.3.6 Prepare the second profile, sealant and glue.

1.3.7 Apply a sealant for the second profile and distribute it

1.3.8 Apply glue to the groove at the edge of the first (previous) profile.

1.3.9 Carefully and gradually begin laying the second (subsequent profile) on the sealant, connecting the lock. Please note that instant glue work with contact and pressure, so try to do it on the first try, press on the top the lock for good fixation.

1.3.10 After gluing, press the decking with a roller along the profile, expelling air from under the profile.

1.3.11 Repeat the process with each subsequent profile in steps 1.3.5 - 1.3.10

The time for complete drying of the sealant is 24 hours. However, this time may increase due to drier air or lower temperatures, or decrease in a humid and warm climate. In any case, do not step on the glued material during installation.

Option 2. Installation of a deck made of Isoteak Pro Deck sheets

2.1 About the material

Isoteak Pro Deck sheets are rectangular sheets hot welded for highest waterproofing and durability. They are used to cover any areas of the deck, unless you need to bend the material horizontally. You can cut out any details from the sheets using a template.

2.2 Preparation for installation

2.2.1 You have received the sheets rolled up. Before unwrapping them, we recommend leaving them in a warm place for several hours. This will prevent damage to the seams when unfolding.

2.2.2 Place the sheet on a flat, warm surface. If possible, put it under sunlight. After a while, the warm sheet will become smooth and soft enough for cutting and mounting.

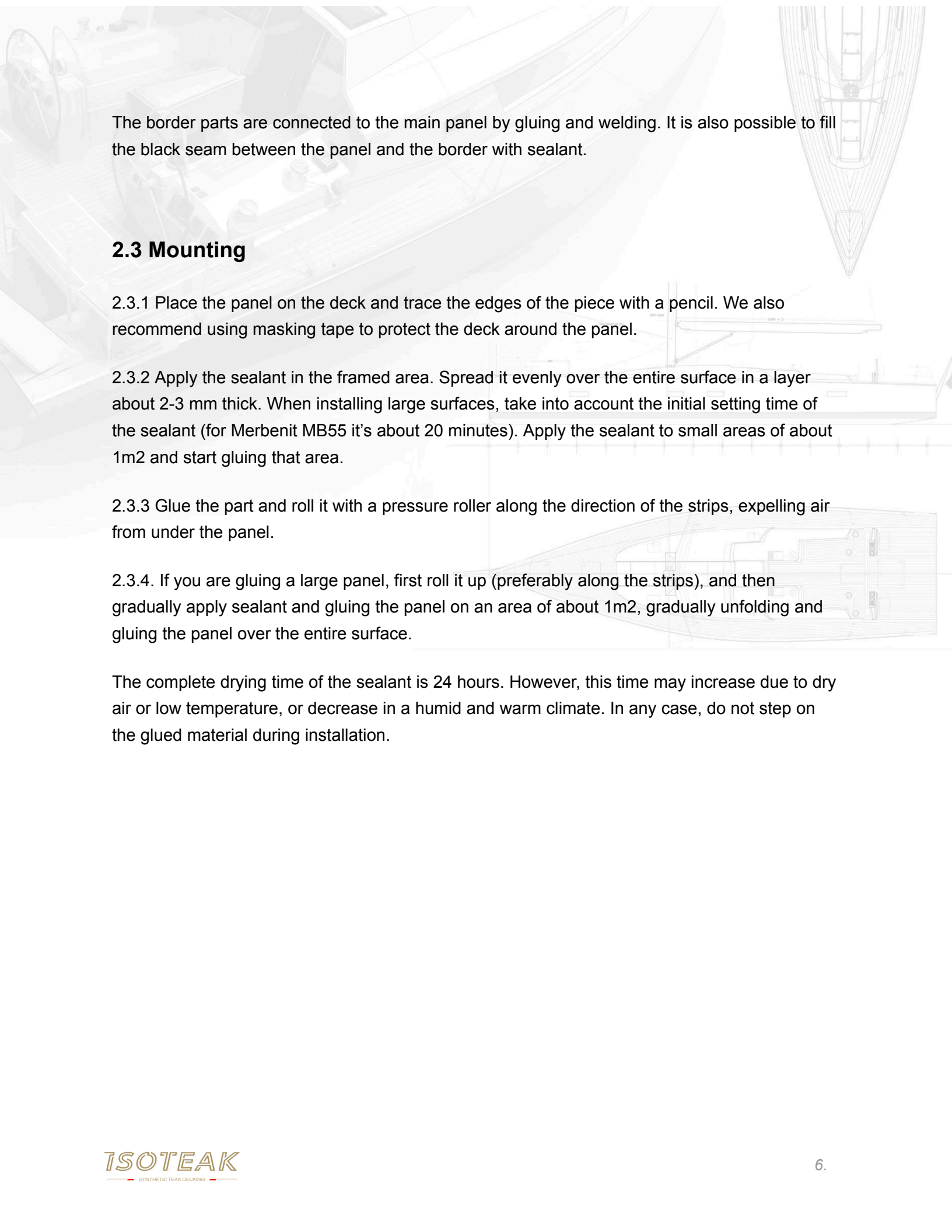
2.2.3 Prepare a template for the deck section to be installed on. The template can be made of thick paper or non-stretchable film. Mark the direction of the stripes on the template and mark the upper surface so as not to make a mistake when cutting.

2.2.4 Apply the template to the sheet, observing the direction of the stripes. Fix the template and draw the edges according to the template with a pencil.

2.2.5 With a sharp knife, using a ruler on straight edges cut out the part. We recommend to heat up the cutting line with a heat gun to a temperature of about 40-50 degrees Celsius, which makes the material soft enough for easy manual cutting.

2.2.6 Leave the part on a flat, warm surface before installation, to avoid creases appearing.

If desired, the edges of the panel can be provided with a decorative border. To do this, use the Isoteak Pro Deck 60mm border profile and the Isoteak Pro Deck 190mm border profile. The 60mm border is used for straight sections and sections with a slight bend. For areas with a significant bend, it is necessary to cut the details of the border from a wide profile of 190mm.



The border parts are connected to the main panel by gluing and welding. It is also possible to fill the black seam between the panel and the border with sealant.

2.3 Mounting

2.3.1 Place the panel on the deck and trace the edges of the piece with a pencil. We also recommend using masking tape to protect the deck around the panel.

2.3.2 Apply the sealant in the framed area. Spread it evenly over the entire surface in a layer about 2-3 mm thick. When installing large surfaces, take into account the initial setting time of the sealant (for Merbenit MB55 it's about 20 minutes). Apply the sealant to small areas of about 1m² and start gluing that area.

2.3.3 Glue the part and roll it with a pressure roller along the direction of the strips, expelling air from under the panel.

2.3.4. If you are gluing a large panel, first roll it up (preferably along the strips), and then gradually apply sealant and gluing the panel on an area of about 1m², gradually unfolding and gluing the panel over the entire surface.

The complete drying time of the sealant is 24 hours. However, this time may increase due to dry air or low temperature, or decrease in a humid and warm climate. In any case, do not step on the glued material during installation.

Option 3: Installation of ready-made Isoteak Pro Deck panels made according to your templates

3.1 About the material

Isoteak Pro Deck prefab decking panels are made according to your templates, hot welded for high waterproofing and ready for installation. Sometimes it happens that we are provided with rough-made templates, so we make panels according to industry standards and common design. In this case you may need to fit the panel yourself with a knife and sanding machine. Large panels can be divided into parts for easy transportation and installation.

3.2 Preparation for installation.

3.2.1 You have received the panels rolled up. We recommend to leave the roll in a warm place for several hours before unrolling. This will prevent damage to the seams when unfolding.

3.2.2 Unroll the panel and place each piece on a flat, warm surface. If possible, put them under sunlight. After a while, the panels will become smooth and soft enough for installation.


3.2.3 Before starting the installation, place the panel at the installation site and check the size, if necessary, adjust them with a knife and a sander.

3.2.4 Keep in mind that warm panels can bend horizontally, so you can bend them a little during installation to fit the desired contour.

3.3. Mounting

3.3.1 Place the panel on the deck and trace the edges of the piece with a pencil. We also recommend using masking tape to protect the deck around the panel.

3.3.2 Apply the sealant in the framed area. Spread it evenly over the entire surface in a layer about 2-3 mm thick. When installing large surfaces, take into account the initial setting time of the sealant (for Merbenit MB55 it's about 20 minutes). Apply the sealant to small areas of about



1m2 and start gluing that area.

3.3.3 Glue the part and roll it with a pressure roller along the direction of the strips, expelling air from under the panel.

3.3.4 If you are gluing a large panel, first roll it up (preferably along the strips), and then gradually apply sealant and gluing the panel on an area of about 1m2, gradually unfolding and gluing the panel over the entire surface.

The complete drying time of the sealant is 24 hours. However, this time may increase due to dry air or low temperature, or decrease in a humid and warm climate. In any case, do not step on the glued material during installation.

AFTER INSTALLATION

1. After installation is complete, **do not step on the surface** of the glued material until the sealant has completely dried within 24-36 hours, otherwise you will leave dents on the material
2. Remove the dried sealant and glue remaining on the surface of the material. To do this, you can use the tip of a knife, a hard wire brush, sand paper with 40 grain and a piece of Isoteak material as an eraser. If after processing the area it seems lighter to you, do not worry, after some time the difference in tone will no longer be noticeable.
3. If you have gaps between the material and the edging border, fill these places with a sealant.
4. Check the finished decking for air bubbles. They are sometimes formed due to not warm enough material or not strong enough profile rolling during installation. To remove the air bubble, puncture the surface and release the air. Press the material tightly and leave it under the load to glue with a sealant. If the sealant has already hardened, cyanoacrylate glue can be used to glue the material in the area of the bubble. To do this, use a medical syringe with a medium-thick needle. Fill a syringe with 1-2 ml of cyanoacrylate glue, pierce the air bubble, press on the edges of the bubble to expel the air, and then inject a small amount of glue. After that press the entire surface of the air bubble and hold it for a while, after that carefully remove the needle.
5. Clean the finished deck with a regular floor brush and soap detergent. You can also use high-pressure water after 24-36 hours after installation. If you use any other cleaning products, check their effect on a small piece of material.

RECOMMENDATIONS

1. If after installation there are drops of sealant left on the material, do not try to remove it immediately. Protect the area of contamination so as not to step into it and leave the contaminated area until the sealant is completely dry. It will be easier to remove the sealant later mechanically.
2. Surface traces of sealant from dirty hands or feet can be removed fresh with a cloth soaked in alcohol.
3. Avoid aggressive solvents for surface treatment of the material. We recommend using only alcohol, Isoteak cleaner or soap detergent without aggressive solvents for cleaning.
4. If you are applying a border profile along the edges of the deck, be sure to glue it to the main profile.
5. Protect the deck areas adjacent to the edge of the material with masking tape.
6. Sometimes a central solid wide stripe is used in the design. If you combine the Isoteak Pro Deck 190mm border profile with a triple-plank profile or sheets, you should leave a gap of 5 mm between them and seal the seam with sealant. To do this, stick masking tape along the entire length of both profiles, apply sealant to the seam with a gun and treat the joint with a narrow spatula along the entire length of the joint.
7. The sealant hardens from moisture, so if you have seams with an open sealant, treat them with water spray so as not to accidentally get dirty.
8. If you are installing in a dry climate, LIGHTLY spray a layer of sealant with water immediately before laying the material, this will allow the sealant to harden faster.