

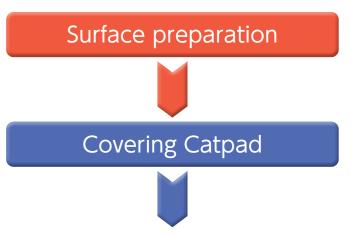
Silicone Adhesive Sheets for Protecting Outdoor Tanks Against Rainwater Penetration at the Annular Plate/Base Plate Interface

# **Catpad**<sup>TM</sup>

**Construction guide** 





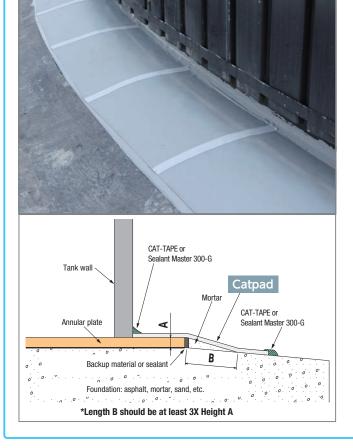


The edges and overlaps of Catpad sheets should be sealed using one of the following methods.

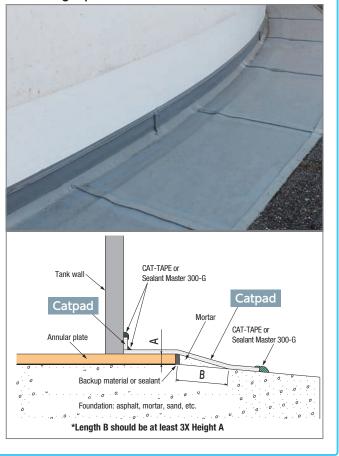




If covering the level surface of the foundation only :



## If covering a portion of the tank wall:



# Surface preparation

1

Remove any existing construction.



2

After removing existing construction, use a wire brush or power tool to remove rust and grime, down to bare metal where necessary.



3

To blunt the sharp edge of the annular plate, we suggest using Shin-Etsu Sealant Master 300-G (a one-component, medium modulus silicone sealant).

\* For details, see the diagrams showing the completed installation on page 2 of this pamphlet.



4

Apply an antirust coating to the edge of the annular plate.

• The Catpad may come loose if the coating strength of the antirust coating is too weak. Use a product with good coating strength.



5

We recommend using mortar to create a slope between the annular plate edge and the foundation beneath.

• Remember that mortar takes time to dry and cure completely.



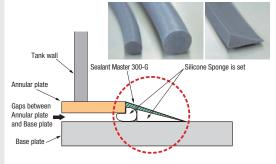
## **Tips**

It is useful to use Silicone Sponge\* Back-up and Sealant Master 300-G instead of mortar to fill the gaps between the annular plate and the base plate.

\*Please contact our sales division.







# **Covering Catpad**

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## Pre-construction inspection

- 1 Wipe the application surface with a rag soaked in alcohol or other cleaner, then check paint for migration or bubbling.
- 2 Check for surface roughness, rust, loose paint, etc. Clean oils from the application surface and remove any small stones, sand, etc.



7

To fit adjust the length of the sheet based on the diameter of the tank.

For example, if the tank diameter is under 15 m, a sheet length of 500 mm will be sufficient.



Standard product size: 300 mm (W) × 1000 mm (L)



8

Remove the separator sheet from the Catpad.

• If it's cold and the separator film is hard to remove, warming up the product can help.



9

Start pressing down the adhesive face, starting at the tank wall.

It should not be pulled but fixed as it is. Be sure no air is trapped between the sheet and the foundation below.



10

After laying down the sheet, smooth it down properly with hands or a suitable tool.



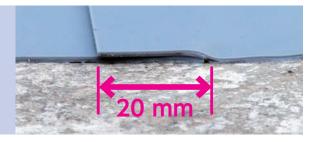
## **Tips**

We recommend using a press roller to finish the task.



11

Sheet overlaps should be at least 20 mm wide.



# When using CAT-TAPE

CAT-TAPE (25 mm (W) x 3000 mm (L)) comes in an aluminum moisture-proof pack.

Try to use up the product within around 30 minutes of opening the package. The product reacts with moisture in the air to bond/cure



12

Clean the application surface with alcohol or similar and allow to dry.

• Take care not to touch the application surface with bare hands. Use of gloves is recommended.



13

Open the package. Then, with the pink separator facing up, press down the product, starting with the overlaps, then cut with scissors once enough has been applied.



14

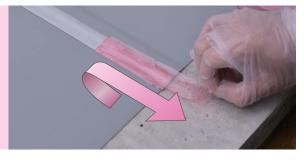
With the separator film still on, press down thoroughly with a roller or the fingertips.



15

Slowly remove the separator film by pulling in a 180° direction.

• Be careful when removing the separator. If the separator is pulled upward, the product may come up with it.



16

Apply at the edges in the same manner.

 $\bullet$  Be sure to press down firmly in places where pieces of tape overlap.



Completed

Leave for 24 hours until the surface is cured, then the job is done.



# When using Sealant Master 300-G

Sealant Master 300-G is actually used together with Catpad. Use one cartridge per 2–3 sheets of Catpad.



12

First, seal along the side of the tank.



13

Next, seal the overlaps.



14

Last, seal the outer edge.

Make sure sealing is done properly. If too little sealant is used, there may be poor adhesion or rainwater infiltration.



**Tips** 

Finishing work can be done with a caulking blade. Use masking tape to ensure a cleaner finished result.



15

Check that the adhesive face is properly fixed.



Complete

Sealant Master 300-G is an adhesive silicone sealant that cures through exposure to moisture in the air. Allow to set for 24 hours, then the job is complete.



## Catpad application to cover part of the tank wall CAT-TAPE · Sealant Master 300-G

If Catpad needs to be applied up the sides of the tank: Cut Catpad into strips and apply, then seal using CAT-TAPE or Sealant Master 300-G.



Catpad is sold in rolls (50 mm (W)  $\times$  3000 mm (L), or 100 mm (W)  $\times$  3000 mm (L)).

## Potential problems with Catpad after construction

### Wrinkles

Because Catpad is a thin, high-strength rubber sheet, tank movement after construction may cause bulging or wrinkles in some spots. This does not, however, affect the product's ability to prevent infiltration of rainwater.



## ■ Pulling up around the outside edges

On fragile asphalt foundations, if the outer edges of Catpad sheets are sealed, the force of the sheets' being pulled toward the inner side may cause cracking in the foundation at the edges.



If this occurs, the outermost edges should be left unsealed. Catpad accommodates movement in a sideways direction.



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