



Instructions of use

Hexa-Cover A/S congratulates you on your new MATRIX-COVER® and we thank you for choosing our product.

Please contact us immediately if this covering solution does not satisfy your expectations.

Kindly read the following instructions for use carefully before using your MATRIX-COVER®. This will ensure the best possible utilization and functioning of your new covering.

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Before applying the MATRIX-COVER®

1. Check the delivery

If you have not received the quantity ordered, please contact us immediately.

2. Check the intake and outlet openings on your container

The container's intake and outlet openings must be smaller than the diameter of the floating elements, so that these cannot become jammed and block the openings.

3. Remove any sporadically occurring surface layer

The surface of the liquid should be fluid and free of any naturally occurring coatings. This will help the MATRIX-COVER® to become distributed into a covering pattern.

During the application of the MATRIX-COVER®

4. Application

The delivered MATRIX-COVER® are to be lifted by i.e. a crane over the container's edge and dumped.

5. At least two persons to be involved during the application

For safety reasons, Hexa-Cover A/S recommends that at least two persons undertake the application of the floating elements.

6. Only 90% of floating elements to be applied

At first, only 90% of the MATRIX-COVER® should be poured into the container. The rest are to be added a couple of days later.

This is to ensure that the container does not become overfilled with floating elements. It is preferable to have too few at the start, since it is easier to add more later than to remove surplus floating elements from the surface. Only an exact quantity will ensure the desired effect of installing the cover.

Due to delivery batch sizes, there can be a small number of MATRIX-COVER® left over after the application.

7. Application into an empty container

If done, this has to be done with the greatest caution. MATRIX-COVER® may not be dumped onto a hard, solid structure but should be carefully placed onto the floor with a crane or other equipment.

After the application of the MATRIX-COVER®

8. Adding extra floating elements

It may be tempting to add extra MATRIX-COVER® in order to cover small openings in the surface. However, these openings are necessary for the whole covering to be able to maintain its structure.

Too many floating elements will cause disorder in the pattern. Therefore, accept a few openings in the structure – they strengthen the overall coverage!

Hexa-Cover A/S emphasizes that, in measuring the emissions from containers covered by MATRIX-COVER®, it is these openings in the surface that constitute part of the remaining approx. 5% of the uncovered surface area. The rest is due in part to the marginal area resulting from the container's own shape contrasted to the hexagonal shape of the floating elements.

9. Regulations for stirring / mixing / agitation

It is recommended that any stirring / mixing / agitation of the liquid is done in a very careful way so that the moving parts of the equipment do not come into direct contact with the MATRIX-COVER®. If contact occurs, there is a risk that the floating elements are damaged and that fragments from these may become lodged in the pumping system/emptying system with undesired results.

Therefore always maintain a distance of at least 1 to 1½ meters!

Be careful, too, during emptying, as the conditions will change constantly. If the rules above applying to stirring / mixing / agitation are followed, damage to the floating elements will be avoided as much as possible.

10. Emptying by pumping or suction

It is important that all pumping or suction is carried out from below the surface of the liquid and at a suitable distance from the floating elements, in order to ensure that these are not sucked away.

It is recommended that the machinery not be started before it is beneath the floating elements.

11. Naturally occurring surface layer (typically for Slurry / Manure)

When a natural surface layer is formed under the floating elements, it may completely or partly lift these, with the result that the MATRIX-COVER® covering will be disturbed. When the surface layer disappears again, the floating elements will automatically reorganize themselves.

MATRIX-COVER® will work best on a smooth liquid surface – that is in i.e. thin slurry of a low viscosity – precisely where covering is necessary. If there is a pre-existing, naturally occurring layer on the surface, the MATRIX-COVER® will not be able to move freely – and this latter is a condition for their effective operation.

12. Effects of the weather

The MATRIX-COVER® can be influenced by winds, which can cause the floating elements to overlap each other. This effect is mostly seen in large tanks. The floating elements will return to their original pattern, as soon as the wind becomes less.

In areas with strong wind it is recommended to install a net in order to secure that the floating elements are not removed from the container / tank.

13. General

The covering cannot be walked upon. The MATRIX-COVER® must not be walked upon – even though the uniformity of the surface may give the opposite impression.

14. Liability for damages

Any installation, stirring / mixing / agitation and pumping, and any other handling of MATRIX-COVER® are done at user's own risk.

Hexa-Cover A/S cannot be held responsible for any damage caused in connection with the installation, stirring / mixing / agitation and pumping, and any other handling of MATRIX-COVER®.

Hexa-Cover A/S cannot be held responsible for any health related problems, injury, or drowning associated with installation, stirring / mixing / agitation and pumping, and any other handling of MATRIX-COVER®.

Hexa-Cover A/S recommends that any stirring / mixing / agitation or pumping / suction is only done under supervision and that regular attention is paid to changes in the gap between the stirring / mixing / agitation and pumping / suction mechanism and the floating elements. This is to avoid any damage being done to the equipment and / or the MATRIX-COVER®.