

What are the benefits?



RemDry is a system that is **simple, cost-effective, efficient and safe to use**. It offers great benefits and flexibility to growers in many ways:

- **Costs and complexity for growers are reduced**, since the RemDry tank and cleaning platform do not need fixing on a concrete surface.
- **RemDry tanks can be sold alone** as independent units to growers that already have a cleaning platform.
- **Can manage waste liquids containing mixtures of PPPs**, except oils forming a layer that prevents evaporation.
- **Minimizes the amount of residue for disposal**, since only dry residue remains after evaporating the liquid.
- **Grower can monitor water consumption** for cleaning on-farm by recording water level in the tank after any input.
- **Adapts to the farm size** and the volumes of waste liquids that need managing, by installing multiple units.
- It requires **minimal maintenance** and is a **long-term solution** for on-farm waste liquid management.
- Enables growers to put into practice the **requirements for the sustainable use of pesticides** by preventing water contamination.



Thanks to the RemDry, it is now possible for all farm sizes to manage remnant waste liquid in an environmentally friendly and sustainable way, preventing water contamination. RemDry being a mobile system has the advantage to not require a concrete surface or any permanent use of farm land, reducing the final management cost for the grower at a more than acceptable level.



Professor Paolo Balsari - DISAFA - Crop Protection Technology Lab - University of Turin, Italy
(Prof. Paolo Balsari is a reference person in Italy and Europe on the use of Application Technology with PPPs, including point sources and spray drift reduction technology)



RemDry is currently being introduced across Europe.

Please visit www.agrimembrane.com for more information about how to obtain a RemDry and contact the local Syngenta office for the nearest demonstration sites.



**A sustainable on-farm solution
for managing remnant waste liquids
containing plant protection product residues**

Why RemDry?

When handling and using plant protection products (PPPs) at the farm, it is important that Best Management Practices (BMPs) are implemented to **prevent the contamination of water courses**, especially from point sources.

Point sources are the unintended environmental emissions of PPPs that may occur during their use in crop protection. They mostly occur during mixing and loading as accidental spills of PPPs, and after spraying by the inappropriate disposal of leftover spray mixtures or of the water used to clean the sprayers.

If these sources are not managed well, they can account for over 50% of surface water contamination. Prevention of point source emissions is the first place to stop contamination.

The impact of point sources is often underestimated and therefore attention needs to be raised about this, to enable growers to take the appropriate action to prevent water contamination.

This is why RemDry was developed, to provide growers with a **simple, effective and sustainable solution for managing remnant waste liquids containing PPPs on-farm**. RemDry features an innovative tank design and a mobile cleaning platform offering flexibility to the grower.

The RemDry system is supported by **Syngenta Crop Protection AG** and co-developed with **Ecomembrane Srl** and **Uptofarm Srl**, a spin-off company of the Department of Agricultural, Forestry and Food Sciences (DISAFA) - University of Turin, Italy.



How does it work?

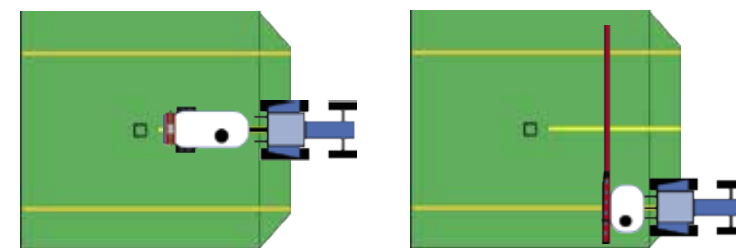


The RemDry Cleaning Platform

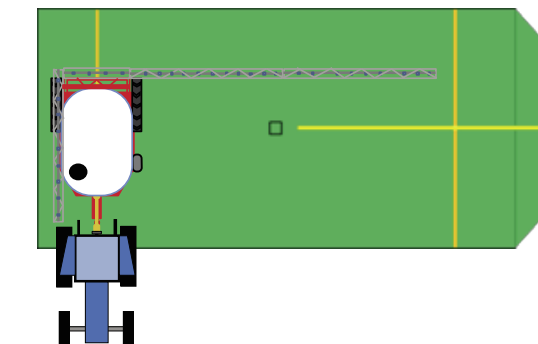
- Made of robust and resistant **PVC membrane**.
- **Easy and quick to set up** on bare ground and to use by unfolding/ folding it on the spot.
- Comes in **two sizes** useful for accommodating different sprayer types.
 - orchard sprayers (mounted or trailed) and arable field boom sprayers (mounted or trailed) with boom lengths up to 12m (**S type: 6x6m**) or higher than 12m (**L type: 6x12m**).



Small type



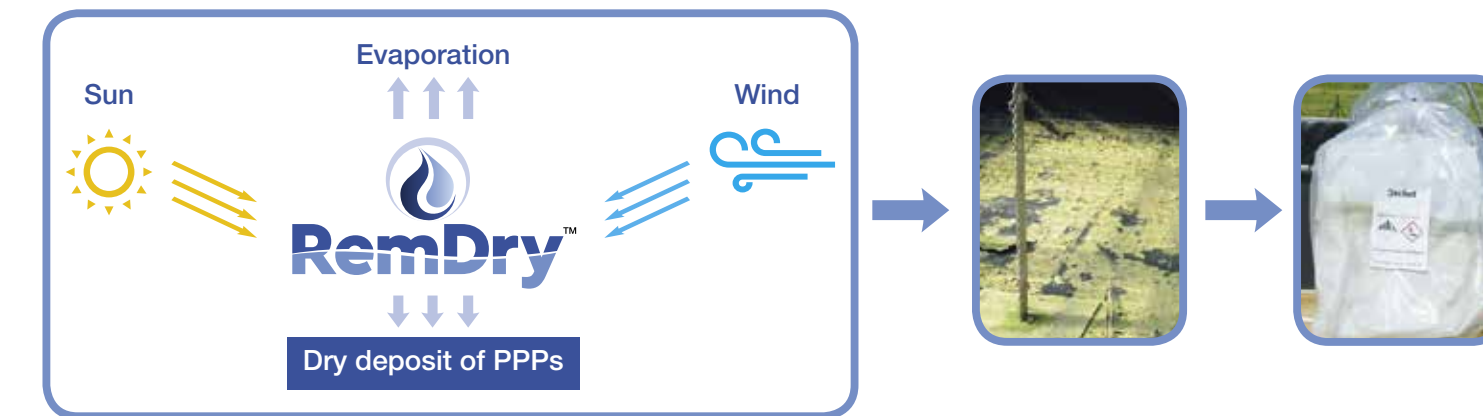
Large type



- To use during **mixing** and **loading**, for **emptying** spray mixture remnants left in the tank, and for **cleaning** sprayers.
- Waste liquids are **collected in the central sump and transferred by a pump** to the RemDry tank.

The RemDry Tank

- RemDry consists of an **octagonal steel tank** covered by a **transparent roof** and has **openings** on all sides. The design allows for maximum wind and sunlight passing through.
- **Easy and quick to install** without need to fix it on a concrete surface (anchor points are available for greater stability).
- The RemDry tank can hold **up to 2500 L** of waste liquid.
- Equipped with a **thick base liner** and an **extra internal liner** to contain all waste liquids poured into the tank.
- The water from the waste liquid is evaporated by the action of **sunlight and wind**, leaving PPPs residues as a **dry deposit** on the internal liner.
- The liner is collected for **safe disposal** at a waste treatment center when dry deposit has built up to a level for disposal



- RemDry needs to be used according to **local environmental regulations** and to be placed at a safe distance from water courses and roads, work areas, domestic areas and animal holding areas on farms. **Proper waste treatment centers also need to be available.**