

Crop(s) **Grape**
Disease(s) **Powdery mildew**

Resistance management strategy for:

Group 3	Demethylation inhibitors (DMI);
Group 5	Amines (morpholines);
Group 5 + 3	Amines + DMI
Group 7	Succinate dehydrogenase inhibitors (SDHI);
Group 7 + 3	SDHI + DMI
Group 7 + 12	SDHI + phenylpyrroles (PP);
Group 11	Quinone outside inhibitors (QoI);
Group 11 + 3	QoI + DMI;
Group 13	Aza-naphthalenes;
Group 19	Chitin synthase inhibitor
Group 21	Quinone inside inhibitors (QiI);
Group 50 (U8)	Actin disruptors (aryl-phenyl-ketones); and
Group U6	Phenyl-acetamide.

Guidelines

1. Apply all these fungicides preventatively.
2. Consecutive applications include from the end of one season to the start of the next. Medium to high risk fungicides (**Group 7** and **11**) if used consecutively should be applied in a mixture or co-formulation with a registered, alternative mode of action for which resistance is not known – where these fungicides have been routinely used for many seasons, field research indicates there is an increased risk of powdery mildew resistance. To ensure effective powdery mildew control in these circumstances, either use alternative modes of action or apply in mixtures.
3. **Do not** apply more than one application of **Group 5+3**.
4. **Do not** apply more than two consecutive sprays of **Group 3, 5, 13, 19, 21, 50 (U8)** and **U6** (including mixture formulations, apart from **Group 5+3** which should be a maximum of one application).
5. **Do not** apply more than three **Group 21** containing products per crop, or a maximum of 33% of total applications (whichever is lower). Continue alternation of fungicides between successive seasons.

Please note:

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		Group									
		3	5	5 + 3, 7 + 12	7 (inc. 7 + 3)	11 (inc. 11 + 3)	13	19	21	50 (U8)	U6
Total number of powdery mildew targeting sprays	1	1	1	1	1	1	1	1	1	1	1
	2	2	1	1	1	1	2	2	1	1	1
	3	2	2	1	1	2	2	2	1	1	1
	4	2	2	1	1	2	2	2	1	2	2
	5	2	2	1	1	2	2	2	1	2	2
	6	3	3	1	2	2	3	3	2	2	2
	7	3	3	1	2	2	3	3	2	2	2
	8	3	3	1	2	2	3	3	2	2	2
	9+	3	3	1	2	2	3	3	3	2	2

N.B. Consecutive sprays include mixture formulations.

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