

Case Study: Effective Treatment for Odour Control on Artificial Turf

Background

A homeowner with a large artificial turf yard and extensive hard surfaces faced persistent odour issues due to a high dog load for over 10 years. Despite trying various competitor products and treatment regimens, the homeowner experienced no lasting success. The consistent problem led to the decision to trial a new odour control solution in a designated area of the yard. The trial aimed to determine the optimal application rate and dilution for effective odour mitigation.

Trial Overview

The trial was conducted over a 30 square meter area (3x10m) of the yard. The product was tested at three different dilution rates to assess its efficacy:

- **Initial Application (1:10 Dilution):** The product was applied at a 1:10 ratio (1 part product, 10 parts water). After this application, there was no noticeable improvement in odour control.
- **Increased Concentration (50:50 Dilution):** The dilution was increased to 50:50 (equal parts product and water). This resulted in an odour control improvement, but the effects were not long-lasting.
- **Undiluted Application (100% Product):** Finally, the product was applied in its full concentration, undiluted. This resulted in the ultimate result —the odours were eliminated, and even after several months, the smell had not returned in this area.

Key Observations

1. Effectiveness at Full Concentration: The 100% concentration provided the most effective and lasting odour control. Even after variable weather conditions over several months in a humid environment, the treated area remained odour-free. This suggests that, for severe or long-standing issues, using the product undiluted may be the best approach.

2. Respray Requirements for Diluted Applications: In the 50:50 area, a couple of resprays were necessary to maintain odour control. This indicates that while a diluted solution may offer some improvement, it is less reliable for long-term effectiveness.

3. Artificial Turf Application: The homeowner observed that there is a need to ensure adequate saturation during application, especially in high-load areas.

Recommendations

Based on the results of this trial, the following application regimen is recommended:

Initial or Problem Areas: Apply 1 litre per square meter at full concentration for areas with persistent or severe odour issues.

Maintenance Applications: For ongoing maintenance, apply a 1:5 dilution (1 part product, 5 parts water) on a weekly or monthly basis, depending on the load and usage of the area.

Conclusion

This case study demonstrates the importance of adjusting the dilution rate for optimal results in odour control on artificial turf and hard surfaces, particularly in areas with high pet activity. The trial highlights that diluted applications are suitable for maintaining odour control, with full-strength application the most effective solution for long-lasting results.