

## SURFACTANT LEACHING

Surfactant leaching—also referred to as exudation, weeping, or streaking—appears as sticky, soapy spots or glossy streaks on freshly painted surfaces, typically developing within the first several days or weeks after application. It can occur on interior areas exposed to frequent moisture, such as bathrooms, showers, laundry rooms, and saunas, but is more commonly observed on exterior surfaces. The material that migrates to the surface can vary in appearance, ranging from nearly clear glossy patches to whitish, translucent marks, or tan to brown colored streaks (Figure 1).



Figure 1

All architectural water-based paints contain surfactants, which are surface-active agents that are essential for stability, color acceptance, and proper flow and leveling. Surfactant leaching occurs when slow drying allows these water-soluble materials to migrate to the surface in concentrated amounts. Cool, damp, or humid conditions, as well as exposure to dew or light rain, greatly increase this movement, and temperatures below 50°F during application or drying can produce the same effect. Under these conditions, surfactants remain on the surface as the film forms, creating visible streaks or stains.

All latex paints can exhibit this behavior, and it is more noticeable on dark colors, which contain higher surfactant levels due to added colorant. Although surfactant residue can be aesthetically objectionable, it does not affect the durability or integrity of the coating film. However, the residue should be removed prior to repainting. If allowed to remain, it can become trapped beneath the new coat and may reappear over time.

### Correction

Surfactant leaching typically weathers away on their own within about a month. If the residue has not been “baked” onto the surface by direct sunlight, it can often be removed with clean water. When leaching occurs within the first few days, a strong stream from a garden hose is usually sufficient, and light cases may rinse away naturally with rainfall. For more stubborn deposits, use a soft brush or sponge with a mild soapy solution, then rinse thoroughly with clean water. Removal is most effective early in the morning, before the surface warms up, because the residue is generally easier to rinse off at cooler temperatures. Avoid power washing, as it can drive excess water into the coating/substrate and prolong or exacerbate leaching.

## Prevention

To reduce the likelihood of surfactant leaching, follow these best practices:

- Avoid painting in cool, damp, or humid conditions, or when those conditions are expected.
- Avoid painting if rain is forecast within the next 24 hours, or if it has rained in the past 24 hours, especially in cooler weather when the air is likely to remain moisture-laden. For interior projects in bathrooms or other high-humidity areas, allow the coating to dry for at least 24 hours before using showers or generating heavy steam to help reduce the risk of surfactant leaching.
- Avoid painting late in the day when mist, dew or other moisture may form on the substrate.
- Do not paint if the air, material, or substrate temperature is below 50°F or below the product's specified minimum application temperature.
- Apply paint in thin, controlled coats to reduce the risk of surfactant leaching. Thinner films dry more evenly and allow moisture to escape gradually, which helps prevent water-soluble additives from being transported to the surface. Heavy coats dry more slowly, especially in cool or humid conditions, which increases the likelihood of surfactant migration and visible residue on the finish.

## Key Takeaways

Surfactant leaching is a common appearance issue associated with water based architectural coatings, particularly when drying conditions are cool, damp, humid, or interrupted by dew, mist, or light rain. Although the glossy, soapy, or discolored streaks can be visually concerning, they are not an indication of coating failure and do not typically affect the long term durability of the paint film.

The condition is most likely to occur shortly after application, especially on dark colors and in environments where drying is slowed by excess moisture or low temperature. Because the residue is water soluble, early removal is often possible with clean water or a mild cleaning solution, provided it has not been allowed to remain on the surface and become more difficult to remove.

The most effective way to manage surfactant leaching is to prevent it through proper application timing and jobsite awareness. Applying coatings only under suitable temperature and moisture conditions, avoiding heavy film builds, and protecting freshly painted surfaces from early moisture exposure are critical steps in reducing the risk. Understanding this condition helps contractors, specifiers, and property owners respond appropriately, avoid unnecessary repainting, and achieve more consistent exterior and interior coating results.

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