

KEMPEROL MAINTENANCE AND REPAIR CONSIDERATIONS

MAINTENANCE PROGRAM

Kemperol membrane systems are typically maintenance-free. However, problems with other building components, mechanical equipment, etc., can occur, so a maintenance program involving periodic inspections is recommended:

- Inspect the portion of the building where Kemperol waterproofing materials have been installed at least twice a year to remove debris from drains and scuppers to ensure proper drainage.
- For applications where physical or chemical abuse of the Kemperol materials is anticipated, inspect all visible Kemperol waterproofing materials for indications of damage.
- Inspect metalwork, masonry walls, copings, sealants, mechanical equipment, etc., for deterioration and make repairs as required.

DO'S AND DON'TS

Kemperol membranes are tough and durable, and are chemically resistant to most materials encountered in normal building environments.

However, the following conditions can result in damage to the Kemperol membrane:

- Vehicular traffic directly over Kemperol membrane, dragging of equipment and materials over the Kemperol membrane, and other types of similar physical abuse may damage Kemperol membrane. Patching of the membrane may be sufficient, but replacement of the membrane for aesthetic considerations may be necessary.
- Kemperol mineral-filled surfacings are generally unaffected by normal rubber-tired vehicular and pedestrian traffic, provided that the entire waterproofing and substrate assembly has been specifically designed for this type of service. Deterioration of the surfacing aggregate by fracturing, crushing, or erosion is considered normal wear and tear and is not indicative of surfacing failure. Even mineral-filled surfacings can be damaged; mechanical abuse is excluded from warranty coverage.
- The use of a separating layer such as rubber pads or feet is recommended when furniture, planters, mechanical equipment, etc. will be placed directly onto mineral-filled surfacing.
- Depending on concentration and dwell time, alkaline and acidic solutions, and aggressive solvents will damage Kemperol materials. Replacement of the damaged membrane area is usually required in these instances.
- Kemperol materials will not be affected by incidental contact with ethylene glycol, machine oil, lubricating grease, cooking grease, fuel oil, gasoline and aviation fuel, and low-solvent pH neutral cleaning materials. Pooling of contaminants on the Kemperol materials may result in deterioration depending on concentration, dwell time, and contaminant type, so prompt removal of spilled contaminants is always recommended. Chemical damage due to prolonged contact is excluded from warranty coverage.

REPAIR METHODS

In the event that repairs to Kemperol materials are required, the following repair methods are recommended:

- In an emergency, if it is obvious that water infiltration through the Kemperol materials is occurring, temporary repairs can be made by building maintenance personnel with urethane sealant/caulking without affecting warranty coverage.
- Permanent repairs, flashing of new penetrations, and other building modifications that require work to the Kemperol membrane system must be performed by an Authorized Applicator skilled in the application of Kemperol waterproofing materials.
- Surfacing materials are considered to be wearing surfaces, and are expected to require periodic maintenance, repair, and possible reapplication depending on the extent of traffic to which the Kemperol membrane system is exposed. This type of work must be performed by an Authorized Applicator skilled in the application of Kemperol surfacing materials.

SURFACING MAINTENANCE METHODS

Maintenance of Kemperol surfacing materials is typically required to address one of the following two conditions - staining, and localized damage.

Stains can be caused by food, wine, flower blossoms, rusting furniture, airborne contaminants, etc. Some stains can be removed in their entirety, but others can only be partially removed or lightened.

Whenever practical, stain-causing materials should not be placed directly on the surfacing.

Of course, stains will eventually occur. When they do, the following cleaning procedure is suggested:

- Use a solution of a pH-neutral or mildly acidic cleaner such as Simple Green or Orange Crystal Concentrate and water. Follow manufacturer's instructions regarding dilution ratio.
- Pretreat problem stains with a full-strength cleaner application; allow cleaner to remain on the stained area for a few minutes.
- Lightly scrub the surfacing with a medium-stiff natural bristle brush to loosen contaminants. DO NOT scrub so hard as to remove surfacing aggregate or coating.
- Thoroughly rinse the surfacing to remove all cleaner residue and contaminants.
- Pressure washing will enhance this cleaning procedure, but care must be taken so that damage to the surfacing or membrane does not occur.

As with all cleaning methods, excessive chemical, mechanical or abrasive cleaning methods can bleach or damage the Kemperol surfacing materials, so reasonable care is required.

It is recommended that alternative cleaning materials such as Oxi-Clean or other oxidizing cleaners be applied first in an inconspicuous area to determine their effectiveness and the degree, if any, change in surface appearance caused by their use.

Kemperol surfacing materials that are scraped, chipped, or otherwise damaged are best repaired by the use of Kemperol sealers or coatings. For best results, this type of work must be performed by an Authorized Applicator skilled in the application of Kemperol surfacing materials.

Even with the best cleaning and repair methods, it is often difficult to blend cleaned/repared areas into the surrounding surfacing material so that there is no difference in appearance.

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