

TECHNICAL LETTER

MEMBRANE REPAIR AND OVERLAY

Some situations may require repair of an existing membrane or an overlay with a new membrane applied over an existing membrane. If a membrane is damaged during installation or by other trades prior to the finish covering is applied then a repair can be successful if the following guidelines are followed.

Repairs

Damaged area should be dry, cleaned and free from all dirt, debris and other contaminants. A patch should be cut to cover a minimum of 6" in all directions around the area of damage. A light primer coat should be applied to the damaged membrane extending 7" in all directions past the damaged area. The primer should be allowed to completely cure prior to applying the patch. Once the primer is cured apply patch and roll to ensure adhesion. Primer is not required with membranes using Super Stick adhesive. A minimum 1/4" to 1/2" (6mm to 12mm) bead of Protecto Sealant 25XL or JS160H mastic should be applied to the entire edge of the patch area. Tool the bead of sealant with a flat blade so the sealant is at least 1/2" (12mm) on the patch and 1/2" (12mm) on the main field of the membrane, thick enough so the edge of the patch is fully covered by the sealant and not visible.

Overlay

If a membrane has been installed and left exposed longer than the recommended Exposure Limit, an overlay of a second course can be successfully installed. The existing membrane should be inspected for damage, loose areas and detail areas around penetrations; if damage is found, the damaged area should be repaired prior to installing the new course. The existing membrane should be cleaned and free from all dirt, debris and other contaminants. A full coverage of primer should be applied to the existing membrane and allowed to fully cure. Installation of new course should follow standard installation practices, starting at the lowest point. Membrane should be cut so overlaps are offset a minimum of one foot (12 inches). Install membrane such that all laps shed water in both vertical and horizontal installations.

Protecto Wrap M400 and M400A(R) Bridge Deck Membranes

When making repairs after placement of the asphaltic concrete wearing course, overlaps onto existing adhered membrane may not be possible due to the bonding of the wearing course to the membrane. In these situations, cut out and remove all unadhered and damaged areas of wearing course and membrane creating a square or rectangular area of exposed deck. Clean and prime exposed area as described above. After the primer has fully cured, install a patch of new membrane so that all edges of the new membrane butt up to the exposed edges of existing bonded membrane. Roll into place to ensure adhesion. Install a minimum 1/2" bead of JS160H mastic around the entire perimeter of the butt joint of the patch to the existing bonded membrane. Allow mastic to cure before a wearing course patch is applied.

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