

SURFACE PREPARATION

Ensure that the concrete deck is free of all foreign materials, such as curing compounds, dirt, grease, old pavement, previous primers and waterproofing membranes. For deck restoration, remove the existing deck by milling as outlined in the project scope. Ensure there is no sharp points. Immediately prior to the application of the waterproofing membrane system, remove all remaining dust and loose material.

PRIMING

W. R. MEADOWS 3405, hot applied rubber asphalt is used as the primer/membrane in this application. On bridges with curbs, apply W. R. MEADOWS 3405 3" (75 mm) up the curb face. On pre-stressed box beam bridges with no approach slab, apply W. R. MEADOWS 3405 6" (150 mm) over the ends of the beams. On pre-stressed and slab bridges with approach slabs, apply W. R. MEADOWS 3405 2' (600 mm) out onto the approach slab. For top exterior surface precast concrete on three- or four-sided structures, apply W. R. MEADOWS 3405 to overlay the vertical exterior sides by 12" (300 mm). W. R. MEADOWS 3405 should be applied at a rate of 5.5 – 6 lbs. per square yard.

Installation of the OHIO TYPE III WATERPROOFING Membrane

Place the OHIO TYPE III WATERPROOFING Membrane into the hot W. R. MEADOWS 3405 from roadway face of curb to roadway face of curb as allowed by stage construction. Apply the black side down to the waterproofing membrane, the white side must be facing up. Lay OHIO TYPE III WATERPROOFING Membrane parallel to the centerline of bridge. Apply OHIO TYPE III WATERPROOFING Membrane from the low to the high side of the surface to from a roof shingle affect.

Apply W. R. MEADOWS 3405 no further than 5' (1.5 m) in front of the membrane using a squeegee to fill all voids and imperfections this helps to ensure that the W. R. MEADOWS 3405 is still hot & tacky to receive the membrane. Apply an extra bead of W. R. MEADOWS 3405 at the edge of the OHIO TYPE III WATERPROOF-

ING. Following the placement of the protection course, a bead of W. R. MEADOWS 3405 should be applied where the OHIO TYPE III WATERPROOFING contacts the curb to form a watertight seal.

JOINTS

Depending on local Department of Transportation regulations, either butting joints or overlapping joints is an acceptable method of addressing joints. However, please check with the local DOT to find out which method is acceptable in the project's location.

For butting joint installation, the OHIO TYPE III WATERPROOFING should be butted together at longitudinal and transverse joints. Do not overlap. The maximum allowable space between adjoining sections of the OHIO TYPE III WATERPROOFING should not exceed an 1/8". Apply a bead of W. R. MEADOWS SEALTIGHT 3405 to fill the butt joint seams smoothing with a V-squeegee.

For lapping joints, lap the joints in the OHIO TYPE III WATERPROOFING by at least 3" (75 mm). After installing the waterproofing membrane over the entire surface, seal joints by applying W. R. MEADOWS SEALTIGHT 3405 and smoothing with a V-squeegee.

PAVING

Placement of the asphalt concrete overlay should be accomplished as soon as possible after application. A minimum 2" (50 mm) compacted overlay thickness is required. The temperature of the asphalt concrete at the time of compaction should be a minimum of 290° F, not to exceed 340° F. Paving equipment should be rubber track variety. Protect the membrane surface from unnecessary traffic during the installation of the asphalt roadway.

PRECAUTIONS

Membrane application should not be done during inclement weather, or when deck and ambient air temperatures are below 40° F (4.4°C). Deck surface must be dry at time of application. Refer to Material Safety Data Sheet for complete health and safety information.

