



PPG Highway Waterproofing System Components Recoat Windows

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| <p style="text-align: center;">BD Concrete Primer:</p> | <p>16 hours, maximum (with restrictions noted below)</p> <ul style="list-style-type: none"> If primer has been installed for eight (8) hours or more without overcoating, intercoat adhesion must be validated prior to application of subsequent layers. Test adhesion of overcoat material by spraying several test patches of membrane over primer. Perform adhesion testing in accordance with ASTM D7234. Minimum adhesion value must be >150 psi. The preferred mode of failure is cohesive failure of the concrete substrate. Other modes of failure may be acceptable, contact PPG Technical Service Department and refer to ASTM D7234, Appendix X.1 for additional information. If recoat window is exceeded, primer surface must be sand scuffed or abrasively blasted, then cleaned prior to light recoat (2-4 wet mils) of additional primer. <p>After sand scuffing or abrasive blasting, cleaning, perform adhesion testing in accordance with ASTM D7234. Minimum adhesion value must be >150 psi. The preferred mode of failure is cohesive failure of the concrete substrate. Other modes of failure may be acceptable, contact PPG Technical Service Department and refer to ASTM D7234, Appendix X.1 for additional information.</p> <p>If minimum adhesion values are not achieved, remove existing primer and re-prime substrate in accordance with PPG Installation Procedure documents.</p> |
| <p style="text-align: center;">BD Multi-Use Primer (FAST and SLOW):</p> | <p>24 hours, maximum (with restrictions noted below)</p> <ul style="list-style-type: none"> If primer has been installed for eight (8) hours or more, intercoat adhesion must be validated prior to application of subsequent layers. Test adhesion of overcoat material by spraying several test patches of membrane over primer. On concrete or masonry surfaces, perform adhesion testing in accordance with ASTM D7234. Minimum adhesion value must be >150 psi. The preferred mode of failure is cohesive failure of the concrete substrate. |

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| | <p>Other modes of failure may be acceptable, contact PPG Technical Service Department and refer to ASTM D7234, Appendix X.1 for additional information. On metal substrates, perform adhesion testing in accordance with ASTM D4541. Minimum adhesion value must be >300 psi.</p> <ul style="list-style-type: none"> • If recoat window is exceeded, primer surface must be sand scuffed or abrasively blasted, then cleaned prior to light recoat (2-4 wet mils) of additional primer. <p>After sand scuffing and installing additional primer, test adhesion of overcoat material (i.e., BD Membrane) by spraying several test patches of membrane over recoated primer. On concrete or masonry surfaces, perform adhesion testing in accordance with ASTM D7234. Minimum adhesion value must be >150 psi. The preferred mode of failure is cohesive failure of the concrete substrate. Other modes of failure may be acceptable, contact PPG Technical Service Department and refer to ASTM D7234, Appendix X.1 for additional information. On metal substrates, perform adhesion testing in accordance with ASTM D4541. Minimum adhesion value must be >300 psi.</p> <p>If minimum adhesion values are not achieved, remove existing primer and re-prime substrate in accordance with PPG Installation Procedure documents.</p> |
| <p>BD Membrane:</p> | <p>8 hours, maximum (with restrictions noted below)</p> <p>If recoat window is exceeded, membrane surface must be treated with Raven 161 adhesion promoting primer. Refer to PPG Tie-In and Overlap Procedure documents for full instructions.</p> <p>On concrete or masonry surfaces, perform adhesion testing in accordance with ASTM D7234. Minimum adhesion value must be >150 psi. The preferred mode of failure is cohesive failure of the concrete substrate. Other modes of failure may be acceptable, contact PPG Technical Service Department and refer to ASTM D7234, Appendix X.1 for additional information. On metal substrates, perform adhesion testing in accordance with ASTM D4541. Minimum adhesion value must be >300 psi.</p> |
| <p>BD Top Coat:</p> | <p>8 hours, maximum (with restrictions noted below)</p> <p>If recoat window is exceeded, membrane surface must be treated with Raven 161 adhesion promoting primer. If aggregate is embedded in membrane</p> |

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| | <p>surface, it must be fully removed prior to application of Raven 161 or additional membrane. Refer to PPG Tie-In and Overlap Procedure documents for full instructions.</p> <p>On concrete or masonry surfaces, perform adhesion testing in accordance with ASTM D7234. Minimum adhesion value must be >150 psi. The preferred mode of failure is cohesive failure of the concrete substrate. Other modes of failure may be acceptable, contact PPG Technical Service Department and refer to ASTM D7234, Appendix X.1 for additional information. On metal substrates, perform adhesion testing in accordance with ASTM D4541. Minimum adhesion value must be >300 psi.</p> |
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General Comments:

- When subsequent coats will be installed over any component listed herein, it is not recommended that the component be allowed to cure overnight without overcoating. Regardless of cure time, installer is solely responsible for ensuring the component's surface is fully clean and dry prior to overcoating.
- It is recommended that the "complete" waterproofing system (i.e., all primer and membrane layers) be installed during the same day.

Disclaimer: High temperature and/or high humidity may shorten stated recoat windows. When conditions warrant, Installer shall perform additional adhesion testing to ensure adequate adhesion is achieved.

Appendix A – Document Version Control

| Version | Date | Author | Rationale | Approval |
|----------------|-------------|----------------|--|----------------------------------|
| 1.0d | 8/31/2023 | Jonathan Haydu | First draft | |
| 1.2d | 9/5/2023 | Jonathan Haydu | Reviewed draft internally, various updates and clarifications. | |
| 1.3d | 9/6/2023 | Jonathan Haydu | Additional updates and clarifications | |
| 1.3 | 9/6/2023 | Jonathan Haydu | Issued | Jonathan Haydu James McCarthy |