UNIVERSITAS
GADJAH MADA
Perbandingan Pengaruh Variasi Jenis Filler Terhadap Ketahanan Skid, Raveling, Dan Reflektivitas Permukaan Campuran AC-WC
Sandhi Vardhana Rally, Ir. Taqia Rahman, S.T., M.Sc., Ph.D., IPM.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

AASHTO T 401-22, A., 2022. Standard Method of Test for Cantabro Abrasion Loss of Asphalt Mixture Specimens, 7.

AASHTO T278-99, A.T.-99, 1999. T 278-90 Surface Frictional Properties Using the Pendulum T.pdf.

Ahammed, M.A. dan Tighe, S.L., 2012. Asphalt pavements surface texture and skid resistance exploring the reality, 9 (May), 1–9.

Ahmad, M.T.H.I., Heryanto, Sarpawi, dan Robert, 2025. Inovasi Penggunaan Kapur sebagai Pengganti Bahan Pengisi pada AC-WC. *Jurnal Sosial Teknologi*, 5 (7), 2970–2986.

Al-Mosawe, H., Mohammad, H.K., Albayati, A.H., dan Al-Kheetan, M.J., 2026. Role of mineral filler type and ratio in the rheological, fatigue, and adhesive performance of asphalt mastics. *Results in Engineering*, 29 (October 2025), 109500.

Albayati, N. dan Ismael, M.Q., 2025. Moisture damage in asphalt mixtures: A review of the causes, testing, and mitigating methods. *Advances in Civil and Architectural Engineering*, 16 (30), 144–164.

Alfaqawi, R.M., Fareed, A., Bilal, S., Zaidi, A., dan Airey, G.D., 2022. Effect of hydrated lime and other mineral fillers on stiffening and oxidative ageing in bitumen mastic. *Construction and Building Materials*, 315 (November 2021), 125789.

Andri, Setiawan, A., dan Pradani, N., 2012. PENGARUH PENGGUNAAN KAPUR SEBAGAI BAHAN PENGISI (FILLER) TERHADAP KARAKTERISTIK CAMPURAN BETON ASPAL LAPIS AUS (AC-WC). *JURNAL Rekayasa dan Manajemen Transportasi*.

Asphalt Institute, M.-2, 2014. Asphalt Mix Design Methods. *ASTM International*, i (111), 1–197.

ASTM D6927-15, A., 2015. Test Method for Marshall Stability and Flow of Asphalt Mixtures.

ASTM E1918-21, 2022. ASTM E1918-16. Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field. *ASTM International*, i (Reapproved 2015), 18–20.

Bina Marga, D.J., 2025. *SPESIFIKASI UMUM 2025 UNTUK PEKERJAAN KONSTRUKSI JALAN DAN JEMBATAN*. KEMENTRIAN PEKERJAAN UMUM.

Dong, Q., Yuan, J., Chen, X., dan Ma, X., 2018. Reduction of moisture susceptibility of cold asphalt mixture with Portland cement and bentonite nanoclay additives. *Journal of Cleaner Production*, 176, 320–328.

Fwa, T.F., 2017. Skid resistance determination for pavement management and wet-weather road safety. *International Journal of Transportation Science and Technology*, 6 (3), 217–227.

Grajales, J.A., Pérez, L.M., Schwab, A.P., dan Little, D.N., 2021. Quantum Chemical Modeling of the Effects of Hydrated Lime (Calcium Hydroxide) as a Filler in Bituminous Materials. *ACS Omega*, 6 (4), 3130–3139.

Guha, S.K. dan Kumar, A., 2018. A Literature Review on Anti-Strip Additives in Asphalt Mixture. *International Journal of Science and Research (IJSR)*, 7 (8), 438–445.

Harder, J., 2024. Latest trends in the hydrated lime market. *ZKG International*, 77 (3).

Hesami, E., Birgisson, B., dan Kringos, N., 2013. Numerical and experimental evaluation of the influence of the filler – bitumen interface in mastics.

Hu, X., Wang, X., Zheng, N., Li, Q., dan Shi, J., 2021. Experimental investigation of moisture sensitivity and damage evolution of porous asphalt mixtures. *Materials*, 14 (23).

Huang, S.-C., Claine Petersen, J., Robertson, R., dan Branthaver, J.F., 2002. Effect of Hydrated Lime on Long-Term Oxidative Aging Characteristics of Asphalt. *Journal of the Transportation Research Board*, 1810 (Transportation Research Record), 17–24.

Perbandingan Pengaruh Variasi Jenis Filler Terhadap Ketahanan Skid, Raveling, Dan Reflektivitas Permukaan Campuran AC-WC
Sandhi Vardhana Rally, Ir. Taqia Rahman, S.T., M.Sc., Ph.D., IPM.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Khanza, A.K., Michael, dan Ramadan, H.M., 2025. Karakteristik Ravelling Resistance, MOISTURE SENSITIVITY, Dan Workability Laston AC-WC Dengan Bahan Tambah Polivinil Klorida (PVC). *Nusantara Hasana Journal*, 5 (3), 507–516.

Kurnia, I.R., 2025. ANALISIS PENGARUH STEEL SLAG SEBAGAI PENGGANTI AGREGAT HALUS PADA CAMPURAN AC-WC TERHADAP KETAHANAN RUTTING , SKID , DAN MOISTURE DAMAGE. Universitas Gadjah Mada.

Lastra-González, P., Rodriguez-Hernandez, J., Real-Gutiérrez, C., Castro-Fresno, D., dan Vega-Zamanillo, Á., 2022. Effect of Different Types of "Dry Way" Additions in Porous Asphalt Mixtures. *Materials*, 15 (4).

Lesueur, D., Petit, J., dan Ritter, H.-J., 2013. The mechanisms of hydrated lime modification of asphalt mixtures: a state-of-the-art review. *Road Materials and Pavement Design*, 14 (1), 1–16.

Li, W., Han, S., dan Huang, Q., 2020. Performance of Noise Reduction and Skid Resistance of Durable Granular Ultra-Thin Layer Asphalt Pavement.

Ma'ulva, A.A., Ridwan, A., dan Damara, B., 2025. Penggunaan Semen Portland Sebagai Bahan Pengganti Abu Batu/Filler terhadap Karakteristik Aspal AC-WC. *Jurnal Talenta Sipil*, 8 (2), 779.

Mabui, D.S., Tjaronge, M.W., Adisasmita, S.A., dan Pasra, M., 2020. Resistance to cohesion loss in cantabro test on specimens of porous asphalt containing modificated asbuton Resistance to cohesion loss in cantabro test on specimens of porous asphalt containing modificated asbuton. *IOP Conference Series: Earth and Environmental Science*.

Neupane, P. dan Wu, S., 2025. A comprehensive review of moisture damage in asphalt mixtures: Mechanisms, evaluation methods, and mitigation strategies. *Construction and Building Materials*, 471 (November 2024), 140740.

Nugroho, R.D., 2024. PENGARUH MUATAN ELEKTRIK PERMUKAAN TACK COAT DAN AGREGAT TERHADAP KUAT GESER ANTARLAPISAN CAMPURAN ASPAL. UNIVERSITAS GADJAH MADA.

Permana, R.A., Pramesti, F.P., dan Setyawan, A., 2018. Characteristic Asphalt Concrete Wearing Course (ACWC) Using Variation Lime Filler. *IOP Conference Series: Materials Science and Engineering*, 333 (1).

Qin, Y. dan He, H., 2017. A new simplified method for measuring the albedo of limited extent targets. *Solar Energy*, 157 (July 2016), 1047–1055.

Qin, Y., Luo, J., Chen, Z., Mei, G., dan Yan, L.E., 2018. Measuring the albedo of limited-extent targets without the aid of known-albedo masks. *Solar Energy*, 171 (August), 971–976.

Rahman, A., Ali, S.A., Adhikary, S.K., dan Hossain, Q.S., 2012. EFFECT OF FILLERS ON BITUMINOUS PAVING MIXES : AN EXPERIMENTAL, 03 (1), 121–127.

Riski, M., Azwansyah, H., dan Mukti, E.T., 2025. EFFECT OF NUMBER OF IMPACTS ON THE VOIDS OF AC-WC MIXTURE WITH CEMENT ADDITIVE AS FILLER. *Jurnal Teknik Sipil*, 25 (1), 1859–1870.

Sen, S. dan Roesler, J., 2016. Aging albedo model for asphalt pavement surfaces. *Journal of Cleaner Production*, 117, 169–175.

ShengYue, W., QiYang, Z., YingNa, D., dan PeiDong, S., 2014. Unidirectional Heat-Transfer Asphalt Pavement for Mitigating the Urban Heat Island Effect. *Journal of Materials in Civil Engineering*, 26 (5), 812–821.

SNI 4427:2008, 2008. SNI 4427:2008 tentang Cara Uji Kekesatan Permukaan Perkerasan Menggunakan Alat British Pendulum Tester (BPT). *Bsn*.

Sudjianto, A.T., Vili, A.D.C.D.J., Suraji, A., Riman, dan Susilo, S.H., 2025. the Effect of Adding Quicklime on Stabilization of Expansive Soils. *Technology Audit and Production Reserves*, 2 (3), 12–17.

UNIVERSITAS
GADJAH MADA
Perbandingan Pengaruh Variasi Jenis Filler Terhadap Ketahanan Skid, Raveling, Dan Reflektivitas Permukaan Campuran AC-WC
Sandhi Vardhana Rally, Ir. Taqia Rahman, S.T., M.Sc., Ph.D., IPM.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Suhaimi, A. dan Baharuddin, A.R., 2019. Threshold value of skid resistance and texture depth for Malaysia road. *IOP Conference Series: Materials Science and Engineering*, 512 (1).

Sukirman, S., 2010. *Perencanaan Tebal Struktur Perkerasan Lentur*.

Sukirman, S., 2016. *Beton Aspal Campuran Panas*.

Sun, Z., Zhang, Z., Lu, G., dan Luo, S., 2025. Recent advances in research on steel slag for asphalt pavements: A review. *Case Studies in Construction Materials*, 22 (April), e04698.

Susanto, H.A., Merdiana, K., dan Indriyati, E.W., 2021. Pengaruh Penambahan Limbah Plastik Polypropylene (PP) Terhadap Ketahanan Ravelling Campuran Asphalt Concrete Wearing Course. *Jurnal Jalan-Jembatan*, 38 (2), 85–94.

Tsoka, S., Zaraveli, Z., Alexandris, K., Mitsouli, K., dan Markos, N., 2026. Albedo and thermal behavior of aged urban surfaces : Evidence from in situ measurements. *Case Studies in Thermal Engineering*, 81 (March), 107991.

Utami, R. dan Subagdja, A., 2017. Perhitungan Densitas Aspal dengan Menggunakan Konversi AASHTO T 166 ke AASHTO T 275. *Konferensi Nasional Teknik Sipil 11*, (26-27 Oktober), 17–22.

Washington State Department of Transportation, A., 2023. Standard Specifications for Road, Bridge and Municipal Construction. *AMERICAN PUBLIC WORKS ASSOCIATION WASHINGTON STATE CHAPTE*, M 41-10.

Zhang, H., Yang, Z., dan Su, Y., 2019. Hydration kinetics of cement-quicklime system at different temperatures. *Thermochimica Acta*, 673, 1–11.