

## DAFTAR PUSTAKA

- Abadjieva, T., and P. Sephiri. "Investigations on some properties of no-fines concrete." University of Botswana, Botswana (2000).
- Akhtar, M. F., et al. "Use of Different Types of Aggregate vis-a-vis Demolition Waste as an Alternate Material for Concrete." Urbanization Challenges in Emerging Economies: Resilience and Sustainability of Infrastructure. Reston, VA: American Society of Civil Engineers, 2018. 679-690.
- Arde, Penggunaan Polypropylene Fiber Dintinjau terhadap Mekanisme Tekan dan Lentur pada Campuran Beton Normal, Surabaya : Teknik Sipil UPN "Veteran" Jawa Timur, 2005.
- ASTM C494 / C494M - 13 Standard Specification for Chemical Admixtures for Concrete
- Brooks, J. J., P. J. Wainwright, and A. M. Neville. "Time-Dependent Behavior of High-Early-Strength Concrete Containing a Superplasticizer." Special Publication 68 (1981): 81-100.
- Bubeník, Jan, and Jiří Zach. "The use of foam glass based aggregates for the production of ultra-lightweight porous concrete for the production of noise barrier wall panels." Transportation Research Procedia 40 (2019): 639-646.
- Cahyadi, Wahyu Dwi. "Studi kuat tekan beton normal mutu rendah yang mengandung abu sekam padi (RHA) dan limbah adukan beton (CSW)= The study on compressive strength of normal concrete

- containing rice husk ash (RHA) and concrete sludge waste (CSW) designed for low strength." (2012).
- Carmona, Jacinto R., Gonzalo Ruiz, and Javier R. del Viso. "Mixed-mode crack propagation through reinforced concrete." *Engineering Fracture Mechanics* 74.17 (2007): 2788-2809.
- Cho, Y. S., et al. "Estimation of compressive strength of high-strength concrete with recycled aggregate using non-destructive test and numerical analysis." *Materials Research Innovations* 18.sup2 (2014): S2-270.
- Chen, Jiaqi, et al. "Analysis of thermal conductivity of porous concrete using laboratory measurements and microstructure models." *Construction and Building Materials* 218 (2019): 90-98.
- Del Viso, J. R., J. R. Carmona, and G. Ruiz. "Shape and size effects on the compressive strength of high-strength concrete." *Cement and Concrete Research* 38.3 (2008): 386-395.
- Dhapekar, N. K., and S. P. Mishra. "Efficient Utilization of Construction and Demolition Waste in Concrete." *Urbanization Challenges in Emerging Economies: Resilience and Sustainability of Infrastructure*. Reston, VA: American Society of Civil Engineers, 2018. 216-226.
- Dina, Pengaruh Penggunaan Polypropylene Fiber Terhadap Penyusutan Pada Saat Pre-hardening Stage, Teknik Sipil UPN " Veteran " Jawa Timur, 1999.

- Edhi, W.S., Pengaruh Penambahan Styrene Butadiene Latex (Sika Latex) Pada Campuran Beton Terhadap Sifat Phisis dan Mekanis Beton, Surabaya: Teknik Sipil Program Pasca Sarjana ITS, 1996
- Elizondo-Martínez, Eduardo Javier, et al. "Review of porous concrete as multifunctional and sustainable pavement." Journal of Building Engineering (2019): 100967.
- Febriani, eni. "pengaruh pemanfaatan pecahan beton sebagai alternatif pengganti agregat kasar sebagai campuran beton k 250 kg/cm<sup>2</sup>." kurva s jurnal mahasiswa 1.2 (2013): 353-375
- Ginting, Arusmalem. "Kuat tekan dan porositas beton porous dengan bahan pengisi styrofoam." Jurnal Teknik Sipil 11.2 (2015): 76-98.
- Gupta, Mayank, et al. "Determination of Optimum Parameters of Porous Concrete for Adequate Strength and Permeability." Journal of Materials in Civil Engineering (2016).
- Gull, Ishtiyaq. "Testing of strength of recycled waste concrete and its applicability." Journal of construction Engineering and Management 137.1 (2011): 1-5.
- Hamid, Deni Anwar, and Endah Safitri. "Pengaruh Penggunaan Agregat Daur Ulang Terhadap Kuat Tekan Dan Modulus Elastisitas Beton Berkinerja Tinggi Grade 80." Matriks Teknik Sipil 2.2 (2014): 43-49.
- Hartono, Sandy B., et al. "Poly-L-lysine functionalized large pore cubic mesostructured silica nanoparticles as biocompatible carriers for gene delivery." Acs Nano 6.3 (2012): 2104-2117.

- Lewis, Janile, Bora Cetin, and Ahmet H. Aydilek. "Effect of pH on the Leaching of Elements from Highway Base Layers Built with Recycled Concrete Aggregates." IFCEE 2015. 2015. 2758-2766.
- Lin, Wuguang, et al. "Development of permeability test method for porous concrete block pavement materials considering clogging." Construction and Building Materials 118 (2016): 20-26.
- Liu, Zhen, et al. "Experimental study of the geopolymeric recycled aggregate concrete." Journal of Materials in Civil Engineering 28.9 (2016): 04016077. Ahmedzade, P., Yilmaz, M., 2008. Effect of polyester resin additive on the properties of asphalt binders and mixtures. Science Direct, Construction and Building Materials, hal. 481 -486.
- Limbachiya, M. C., T. Leelawat, and R. K. Dhir. "Use of recycled concrete aggregate in high-strength concrete." Materials and structures 33.9 (2000): 574-580.
- Lin, Wuguang, et al. "Development of permeability test method for porous concrete block pavement materials considering clogging." Construction and Building Materials 118 (2016): 20-26.
- Mulyono, Tri. "Teknologi beton." (2005).
- Nawy, Edward G., and Benxian Chen. "Deformational behavior of high performance concrete continuous composite beams reinforced with prestressed prisms and instrumented with bragg grating fiber optic sensors." Structural Journal 95.1 (1998): 51-60.

- Nawy, Edward G. "A New Formula to Calculate Crack Spacing for Concrete Plates. Paper by E. Rizk and H. Marzouk: Discussion by Edward G. Navy/AUTHORS'CLOSURE." ACI Structural Journal 107.6 (2010): 735.
- Padmini, A. K., K. Ramamurthy, and M. S. Mathews. "Relative moisture movement through recycled aggregate concrete." Magazine of concrete research 54.5 (2002): 377-384.
- Ren, Xin, and Lianyang Zhang. "The complete recycling of waste concrete to produce geopolymer concrete." Geo-Chicago 2016. 2016. 103-111.
- Ren, Xin, and Lianyang Zhang. "Experimental Study of Geopolymer Concrete Produced from Waste Concrete." Journal of Materials in Civil Engineering 31.7 (2019): 04019114.
- Sakai, Satoki. "A model for seed size variation among plants." Evolutionary Ecology 9.5 (1995): 495-507.
- Samekto, Wuryati, and Candra Rahmadiyanto. "Teknologi beton." Penerbit Kansius, Yogyakarta (2001).
- SNI 03-1968-1990 Pengujian Analisa Saringan Agregat Kasar dan Agregat Halus.
- SNI 03-2417-1991 Pengujian Keausan Agregat dengan Mesin Abrasi Los Angeles.
- SNI 03-4137-1996. Metode pengujian tebal dan panjang rata-rata agregat
- SNI 03-4804-1998 Pengujian Rongga Udara dalam Agregat.

- SNI 15-7064-2004. Semen Portland komposit
- SNI 1969-2008 Pengujian Berat Jenis dan Penyerapan Agregat Kasar.
- SNI 2417-2008. Cara Uji keausan agregat dengan mesin abrasi Los Angeles.
- SNI 03-2491-2002 Metode pengujian kuat tarik belah beton." Bandung: Badan Standarisasi Nasional (2002).
- SNI 1974: 2011 Cara Uji Kuat Tekan Beton Dengan Benda Uji Silinder." Badan Standardisasi Nasional, Jakarta (2011).
- SNI 2847-2013 Persyaratan beton struktural untuk bangunan gedung
- Tamai, Hiroki. "Enhancing the performance of porous concrete by utilizing the pumice aggregate." Procedia Engineering 125 (2015): 732-738.
- Tjaronge, M. Wihardi. "Teknologi Bahan Lanjut Semen dan Beton Berongga." Telaga Zamzam, Makassar Indonesia (2012).
- Viantono, Aris. "Penelitian Laboratorium Evaluasi Penggunaan Limbah Batu Bata dari Daerah Godean sebagai Fraksi Agregat Halus dalam Campuran HRS B." (1997).
- Wang, Chu Kia, Charles G. Salmon, and Binsar Hariandja. "Disain beton bertulang edisi keempat jilid 1." (1993).
- Wang, K., et al. "Development of mix proportion for functional and durable pervious concrete." NRMCA concrete technology forum: focus on pervious concrete. Nashville, 2006.

- Wang, P., and C. Zhao. "Study on reducing railway noise by porous concrete sound-absorbing panel." *Materials Research Innovations* 19.sup5 (2015): S5-1156.
- Xie, Chao, et al. "Study on failure mechanism of porous concrete based on acoustic emission and discrete element method." *Construction and Building Materials* 235 (2020): 117409.
- Xu, Gelong, et al. "Investigation on the properties of porous concrete as road base material." *Construction and Building Materials* 158 (2018): 141-148.
- Yao, Ailing, et al. "Optimum design and performance of porous concrete for heavy-load traffic pavement in cold and heavy rainfall region of NE China." *Advances in Materials Science and Engineering* 2018 (2018).
- Yao, Xingliang, et al. "Synergistic use of industrial solid waste mixtures to prepare ready-to-use lightweight porous concrete." *Journal of cleaner production* 211 (2019): 1034-1043.

No.	Foto	Keterangan
1		Persiapan material agregat limbah beton
2		Persiapan material superplistizier viscocrete
3		Persiapan Fiber Polyprphylene fibrillated

4		Limbah Beton (RCA)
5		Persiapan cetakan benda uji
6		Penumbukan jatuh sebanyak 25 kali

7	 A photograph showing several individuals in a laboratory or industrial setting. They are gathered around a large, yellow cylindrical mixing drum. One person is pouring a green bucket of material into the drum, while others use shovels to add more material from nearby buckets. The scene depicts the process of mixing concrete or similar construction materials.	Proses pengadukan material
8	 A photograph showing a row of approximately ten cylindrical metal molds filled with a granular material, likely aggregate or sand. Each mold has a small green label attached to it. The molds are arranged in two rows on a concrete floor, suggesting they are ready for casting or have just been removed from a casting process.	Memberi label pada benda uji
9	 A photograph of a person wearing a blue t-shirt and dark pants, kneeling on the floor. They are working on a single cylindrical metal mold, which appears to be partially filled with a material. The person is using their hands and a tool to manipulate the contents of the mold, likely preparing to remove it from the mold or adjust its position.	Membuka cetakan benda uji

		Proses curing air
14		Menimbang benda uji dalam bejana air
15		Meimang berat benda uji

16		Proses pengujian benda uji
17		Proses pengujian benda uji
18		Pola retak setelah pengujian