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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : PROSIDING

Judul Jurnal Ilmiah : Structural Analysis Using Matched Acceleration Time Histories (Artikel)
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Semarang, Maret 2022

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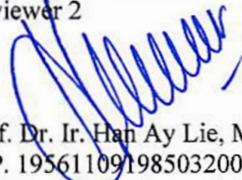
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Artificial Aggregate Made from Expanded Polystyrene Beads Coated with Cement Kiln Dust—An Experimental Trial

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Abstract

The use of waste materials from industrial products to support green building and environmentally friendly construction needs more attention and becomes a common thought. The use of waste materials such as Cement Kiln Dust (CKD) or often referred to as Bypass Dust (BPD), as a concrete substitution material, has been done a lot and not a few have given positive results. However, it is necessary to have other alternatives regarding using this waste material, one of which is to try to use it as a coating material for lightweight materials such as Expanded Polystyrene (EPS) to manufacture artificial aggregate. This coating technique uses a solvent/adhesive in the form of liquid (acetone–water and polyvinyl acetate–water). The resulting weights of coated EPS with BPD are 154–175 g/l. Artificial lightweight aggregate made from EPS grains coated with CKD powder with an adhesive solution of a mixture of Polyvinyl Acetate (PVA)–water gave more promising results than an acetone–water binder. The process of creating coated EPS shows the potential as artificial aggregates for a lightweight concrete. The coated EPS gives a better result in strength than pure EPS beads when replacing the coarse aggregate.

Keywords

Expanded polystyrene (EPS) beads Coating Cement Kiln dust (CKD) Acetone
Polyvinyl acetate

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Analysis of Asphalt Damping Ratio on Shear Test

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Abstract

Seismic resistance structure on high-rise buildings is considered vital to be applied in present days to reduce structural damage caused by the earthquake. Therefore, it requires technology to control the dynamic response of the structure due to lateral forces, including earthquake force. Passive structure control system altering mass or stiffness and incorporating damping material is one representative technology in which could be applied. This study focuses on damping material-Pertamina asphalt with 60/70 penetration as the additional substance for the damper. Asphalt addition in seismic force damping system is to increase damping ratio on building structure and therefore lateral force from earthquake influencing it, is reduced and diverted to damping system. The behavior of asphalt on the shear test conducted on contact fields 9.3333, 23.0667, and 34.7 cm² become the main objective of this research. The law of Hooke and force equilibrium dynamic equation is applied to analyze the damping ratio. Verdict on the investigation of this study has shown results to be supercritical ($\zeta > 1$).

Keywords

Asphalt Damping Stiffness

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References

1. Chopra AK (2012) Dynamics of structures: theory and applications to earthquake engineering, 4/E. Pearson, California

Analysis of Travel Behavior Under Flooding Condition Based on Probe Data in Ubon Ratchathani City, Thailand

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Abstract

Recently, urban floods have frequently occurred and severely affected urban activities in developing cities. To minimize the impacts of transport from urban flooding, it is essential to implement adaptation measures in the transport field. Firstly, it is crucial to understand the impacts of travel behaviors and traffic states from urban flooding. Therefore, this study focused on the relationship between travel speed and inundation depth and evaluating adaptation measures in the transport field. The relationship between travel speed and inundation depth was analyzed based on the probe data. A traffic assignment model was developed to evaluate the raising arterial road measure as an adaptation measure in the transport field while reflecting the analysis results of relationships between travel speed and inundation depth. This found that the implementation in raising arterial road measure for the western bypass could be an effective adaptation measure by reducing Vehicle Kilometer Traveled (VKT) by 65% while decreasing the number of detoured by 5000 vehicles compared to the flooding situation without taking any adaptation measures.

Keywords

Travel behavior Urban flooding Probe data Adaptation measure

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Modeling of Conceptual Framework to Understand Stakeholders' Awareness in Construction Industry in Thailand Affected by the 3rd Wave of COVID-19 Pandemic

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Abstract

The latest 3rd wave of COVID-19 pandemic is occurring globally from 2020 to 2021 without any sign of significant diminishing. More variants of coronavirus 2019 mutation have been found in Thailand, together with a high mortality rate. While vaccination, an important national agenda, could not yet control the pandemic, the pandemic has caused difficult circumstances in labor-intensive industries, especially the construction industries. Consequently, the researchers became interested in studying the conceptual framework to understand stakeholders' awareness in the Thai construction industry affected by the 3rd wave of the COVID-19 pandemic, especially during April–May 2021. And hence did as follows. At first, the researchers studied literature reviews from various academic articles and online databases and gathered information through in-depth interviews via collaboration tools such as the Microsoft team and zoom applications in communicating with thirteen experienced construction practitioners. Secondly, the researchers validated the information and developed a conceptual framework model of stakeholders' awareness in the construction industry in Thailand. In the model, the researchers found that the pandemic changed the attitudes of Thai practitioners, both confident and satisfaction attitudes, affected working practices, and necessitated stakeholders to assess effects on construction projects and formulate future policies and practical measures at executive and operational levels.

Keywords

Conceptual framework Stakeholders' awareness COVID-19 pandemic

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