

A STUDY ON LONG-TERM AGING OF RECYCLED BINDERS USING PERFORMANCE GRADE TESTS WITH EXTENDED AGING TIME

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INTRODUCTION.

Not in-place Recycling (HRS)

& Green spot effective passement rehabilitation practice.



Advantages

- Usi hi SON, and savenas.
- Lanz new malerial, Soft-apprepare and augitudi.
- New recorder relative/self
- Liter transportation of material
- . Us to 70% has annually a
- Fast, one pass process; Less road closure time

Aughalt Aging and Representation

- A critical element in HIR's binder rejuversation.
- Asphalt is consists of Asphalteria (Main body) and Malarines (Malarine)
- Aughst ages over time Maltere are tool murrly frough confidence and evaporation.
- Policycling agents (Popularistons) nurs aging, replace singless, and restore organic properties

RESEARCH OBJECTIVES.

- This study aims at tooking beyond mittal performance and evaluating long term aging of recycled binders.
- Current Practice: Effectiveness of a rejuverator is evaluated by softening curves established based on records or proetration regularizates
- Sharksening. Not saling duratify of negrical tander into account. Suffering effectiveness and duratify constitues more all appoint directions.
- Environmental aging of a recycled mix can be guite offerent from that of a single mix.

METHODOLOGY

- Superpose Performance Grade Tests with Extended Aging Time
- Dynamic Shour Phasomeric (DSP)
- Bending Seen Rheometer (BMR)
- Robetenal Vecenteer (RV).
- Railing This Film Overs (RTFO):
- Pressure Ages Vessel (PWV): Innues in farms ages.



Automobile.

- Two trainables of POAT 52 augment become
- Four relationships (CWE, 1996, PMC, BOP).
- Standard PNV aging time is 20 fours. This time is extended to 60 hours to unsulate loop term aging
- Basel in FDOTs eigenories with finders revisioned tion RAP (Reclaimed Agric) Povement)
- PG 65-15 was assumed to represent a RAP binder
- PAV Time: The PAV aging time it takes each sample to reach high temperature PG of 60°C

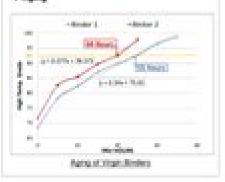
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RESULTS AND ANALYSIS

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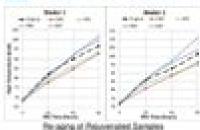
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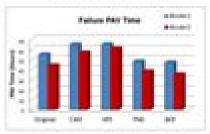
The representative discages required to soften aged arginal surgices to their original produces were determined as follows, based on softening convex.

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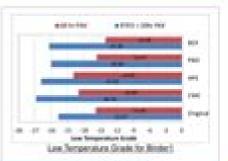
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			** ** **		





Limports of the Original and Represented Security Second on PRV Size

 Low temperature: Low Temperature properties was student brough 85% team at standard aging JRSTO JOHN PRO) and altimate aging conditions all this PRO.



CONCLUSIONS

- Ling-term aging rate of samples recycled by different recycling agents can be very different. Among tear recycling agents can be very different. Among tear recycling active tear of the property of the disent aging white tear others (PNO and BOF); accordingled 5.
- The aging rate of virgin aspiral binder decreases after the tool III hours of PAV aging. This trend was not disserved in the required binders. They continued aging after 25 hours at athrost the same size.
- Recycled bindons night age taster than single bindons in the lang-term, even if they age at the same or street rate during trail 20 teach of this aging. This shoes the importance of studying lang-term gang beautiful the standard PO protein requirements.
- Properties of representative have a great influence of service the of recycled augments. The service the of sumpres recycled by proper representative weak worknessed to be up to years more than brose sufferned by less effective products.
- The facest aging occurred for the samples recycled by RCP, which is a borneasement. Thus, it is reported to conside long-term aging when using such products as recycling agents.
- The law temperature crosp differed of recycled broken was expoleurely lower than that of vegemental broken.

A Patron Work:

- Studying aging of recycled mose through Asphalt Parameter Beachering System (APRIS)
- Studying long-term aging of elictures containing PARP.
- Property modifications to HRI questionists to exhance tempority of HRI pavements using results from this study and follow works.

ACKNOWLEDGEMENT.

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