

Recycling of RA in a hot batch plant

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Overview of report

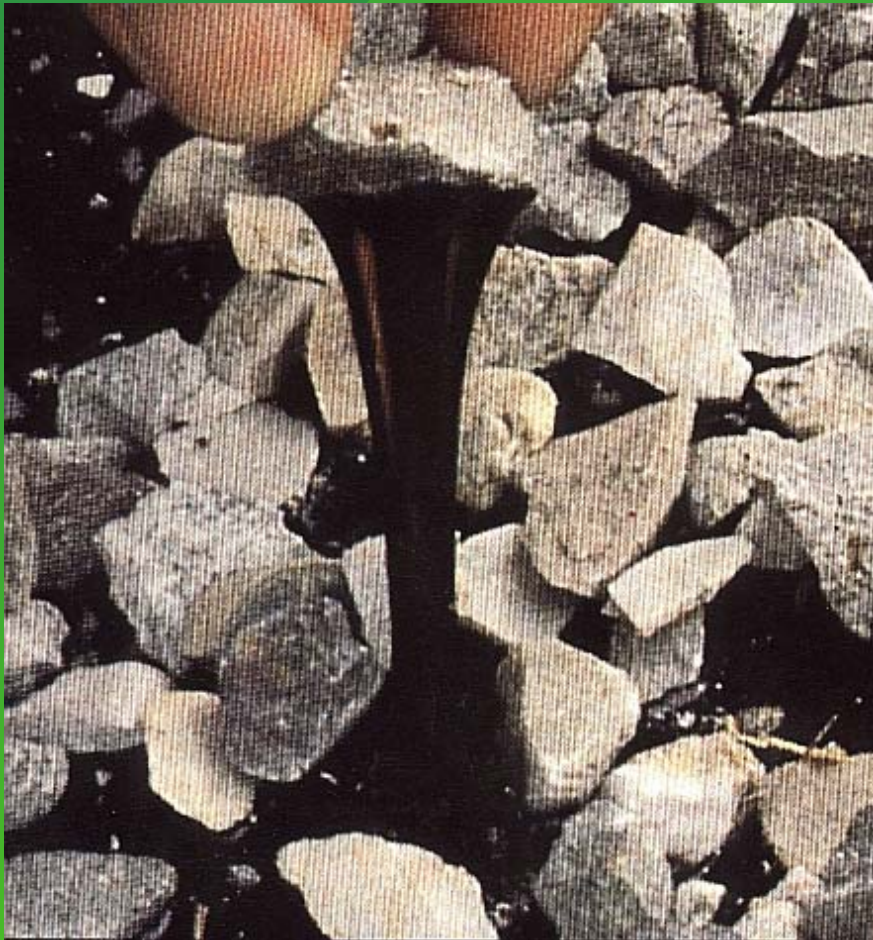
- What we expect (our requirements)
- How we are doing.
- What we have (the result).

Reclaimed Asphalt



- Wearing course ≤ 20 %.
- Base course ≤ 30 %.
- SMA = 0 %.
- Size $\leq 1.4D$. ???

Recovered bitumen



- Penetration ≥ 25 (30)
- Ring & Ball ≤ 65 (60)
- Tar = 0

Homogeneity

- Grading of RA
- binder's softening point
- binder's penetration

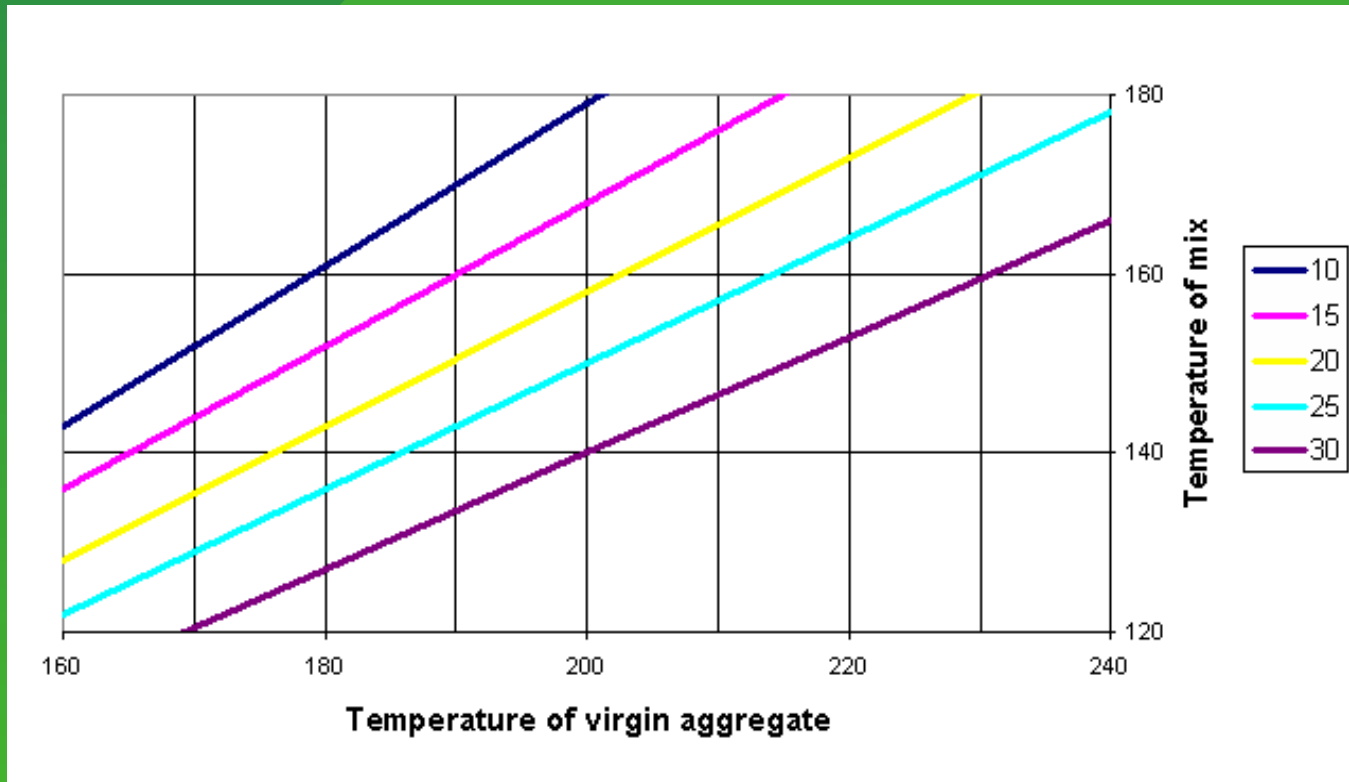
Mix design

- Average RA sample is used
- Recovered binder is renewed

Production



Temperature Correction Of Virgin Aggregate



Temperature Correction Of Virgin Aggregate

Quantity of RA in the mix % by weight	Moisture of reclaimed asphalt, % by weight					
	1	2	3	4	5	6
	Temperature correction °C					
10	4	8	12	16	20	24
15	6	12	18	24	30	36
20	8	16	24	32	40	48
25	10	20	30	40	50	60
30	12	24	-	-	-	-

Laying and compaction

- Conventional equipment and technic

Test sections on road Vilnius - Kaunas

	0/32 C			0/22 A			Total		
	km	m2	ton	km	m2	ton	km	m2	ton
2001	10	37000	7500	10	119500	13500	10	156500	21000
2002	16.9	62500	12800	16.9	202000	23000	16.9	264500	35800
Total	26.9	99500	20300	26.9	321500	36500	26.9	421000	56800

Problems

- Variable moisture content
- Thermal problems on sieves
- Limited use of rejuvenators
- “Greasing “of dry filters

Conclusions

- RA can be recycled in a batch plant up to 25 %
- RA shall be crushed, sieved and sorted
- Successful use requires right preparation and storage of RA
- Certain additional laboratory work is needed for controlled and height quality production

Thank you for audience

THE END