







M TC 206-AT	B: Advanced	M.N. Partl: Recycling ISAI Testing and Charac	» WG05 –RILEM, Varirei, terization of Bit.	L'Aquila 28 June 07 Materials
i5 Ove	rview	on Aging	g Proto	COIS
Sample type	Short-term ag.	Long-term ageing	Characterization	Correlation
compacted amples	Loose state 4h @ 135°C	5d @ 85°C	For further mix testing	With LTPP field sections
Aarshall comp. of Porous Asphalt	None	Air flow @ 60°C up to 21d	Binder recovered & rheol. eval.	With exposed sample (18 mths
compacted amples	None	Saturated @ 85°C, 2.1MPa for 65h	ITSM on mix samples	
Cores from pav.	None	48h@60°C	ITSM	With field (397d)
compacted ample	3h @ 135°C	16h @ 120°C or 110°C		Correlate w. 20 field aging
yratory comp. amples	4.5 wks @ ambient temp.	7d @ 60°C with oxygen flow	Mech. properties of asphalt mix	Ranking test
oose material of Porous Asphalt	none	1y @60°C no air flow or w. oxygen flow	R&B, pen, rheol. eval. asphaltene,	
oose mix	4h@135°C	24h @ 100°C (then compaction)		
oose material	2h @ mix temp	7d @ 80°C	Pen and R&B	With PAV
oose material	16h @ 160°C		R&B and Pen	Long-term stora @ mix plant
	A TC 206-AT 5 OVE brot) Sample type compacted amples cores from pav. compacted amples cores from pav. compacted ample cores material of corous Asphalt corous Asphalt	ITC 206-ATB: Advanced Sompacted Compacted Marshall comp. of None Compacted Adrishall comp. of Torous Asphalt Compacted Mone Compacted Anshall comp. of None Compacted Angles Cores from pay. None Compacted amples Cores from pay. None Compacted amples Cores from pay. None Compacted Syratory comp. A.5 wks @ amblent temp. Oose material of Porous Asphalt oose mix 4h @ 135°C cose material 2h @ mix temp cose material 16h @ 160°C	TC 206-ATB: Advanced Testing and Charact Source View On Aging Sample type Short-term ag. Long-term ageing compacted anyles Loose state 4h Garshall comp. of orous Asphalt compacted anyles None Air flow @ 60°C up torous Asphalt compacted anyles None Saturated @ 85°C, 2.1MPa for 65h cores from pav. None 48h @ 60°C orgen and the examples ambient temp. orgen aterial of porous Asphalt none 19 @ 60°C to air flow or w. oxygen flow oose material of porous Asphalt oose mix 4h @ 135°C 24h @ 100°C (then compaction) oose material 2h @ mix temp oose material 2h @ mix temp oose material 2h @ mix temp	Sample type Short-term ag. (2005) Long-term ageing (2005) Characterization (2005) Sample type None Air flow @ 60°C up to 21d Binder recovered & rheol. eval. Compacted amples None Saturated @ 85°C, 2.1MPa for 65h ITSM on mix samples Compacted ample 3h @ 135°C 16h @ 120°C or 110°C ITSM Compacted amples 3h @ 135°C 16h @ 120°C or 10°C Mech. properties of asphalt mix Oose material of corous Asphalt none 17 @ 60°C no air flow or w. oxygen flow R&B, pen, rheol. eval. asphaltene, oose mix 4h @ 135°C 24h @ 100°C (then compaction) Pen and R&B <i>R&B and Pen</i>













