

Words of welcome and introduction to the workshop

By Luc Rens, Managing
Director, EUPAVE



Our mission

- EUPAVE's mission is
 - to advocate and enable wider use of cement and concrete applications in European transport infrastructure by
 - engaging with EU, national and local decision makers,
 - disseminating technical know-how and communicating benefits and
 - promoting innovation and best practices in the sector.

Previous Workshops on Best Practices

- **1st : 26 May 2015**
 - Achieving and maintaining the evenness of concrete pavement
- **2nd : 17 February 2016**
 - Joints in concrete pavements
- **3rd : 23 February 2017**
 - The right concrete mix for the right surface
- **2018: Berlin, 13ISCR**
- **4th: 18 June 2019**
 - Hydraulically Bound Base Layers and RCC pavements
- **5th: 14 October 2020**
 - Concrete Pavement Preservation



Pervious concrete pavements

- See EUPAVE’s latest Factsheet on “Resilience”



MITIGATION EFFECTS

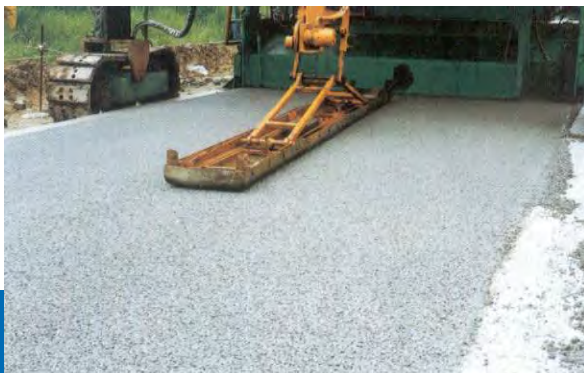
Concrete roads and their surfaces can have several positive mitigation effects on climate change: slowing down global warming thanks to their high albedo, reduced CO₂- emissions due to lower fuel consumption for heavy trucks, recarbonation of recycled aggregates, reducing the risk for flooding with water pervious concrete pavements.. For more information on all of these benefits, we refer to the other available factsheets of EUPAVE.



Parking lot in pervious concrete pavement, Dreux (France) © CIMbéton

Pervious concrete pavements

- Not totally new...some experiences from the past, mainly focusing on reduction of rolling noise
 - German experiences on motorways and local roads
 - 1994 : BAB 5 at Bruchsal
 - 2002 : B56n
 - 2002 : Hockenheim Ring
 - Belgium - Test sections of low-noise surfaces
 - 1996: Herne



Pervious concrete pavements

- But also solutions for water drainage have been looked for since long
 - Water infiltration – storage – retarded evacuation
 - A wide range of solutions in precast concrete products



©Beeldens&Vijverman, ICCBP Dresden, 2015

Pervious concrete pavements

- Today, the focus is on:
 - Pervious concrete for draining purposes
 - Porous concrete mixes
 - Concrete pavements with drainage holes (perforated, alveolar structure)
 - In-situ cast concrete
 - Compacted by external means (roller compactors – vibrating plate – roller finisher): for gap graded mixes for porous concrete
 - Compacted by internal vibration: for conventional mixes

Programme

- 13:45 – 14:00** **Words of welcome and introduction to the workshop**
By Luc Rens, Managing Director, EUPAVE
- 14:00 – 14:25** **Pervious (lean) concrete for sustainable road pavements: first results of the Belgian Be-Drain project”**
By Elia Boonen, Researcher – Technical Advisor, Belgian Road Research Center
- 14:25 – 14:50** **Pervious concrete, an environmentally friendly material for roads: applications on construction sites in France**
By Eugen Florescu, Road Projects Manager, Holcim
- 14:50 – 15:15** **Special applications of pervious concrete in the Netherlands**
By Jeroen de Vrieze, Advisor Promotion, Market and Statistics, Betonhuis
- 15:25 – 15:45** **Coffee break**

Programme

- 15:45 – 16:10** **A permeable grass concrete pavement: new opportunities with biodegradable formwork**
By Fabrice Bonnin, Technical Manager, Via Sols
- 16:15 – 16:45** **Next-generation climate change resilient permeable pavements**
By Alalea Kia, PhD Meng DIC MICT, Postdoctoral Researcher in Structures and Materials, Department of Civil and Environmental Engineering, Imperial College London
- 16:40 – 17:00** **Q&A**
- 17:00** **Closing of the workshop**

Pervious (lean) concrete for sustainable road pavements: first results of the Belgian Be-Drain project”

By Elia Boonen, Researcher – Technical Advisor, Belgian Road Research Center

Pervious concrete, an environmentally friendly material for roads: applications on construction sites in France

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Special applications of pervious concrete in the Netherlands

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Market and Statistics, Betonhuis

Coffee break

A permeable grass concrete pavement: new opportunities with biodegradable formwork

By Fabrice Bonnin, Technical Manager and
Lucien Matheus, Sales representative, Via Sols

Next-generation climate change resilient permeable pavements

By Alalea Kia, PhD Meng DIC MICT, Postdoctoral Researcher in Structures and Materials, Department of Civil and Environmental Engineering, Imperial College London

Q/A

Acknowledgements

- All speakers for their tremendous efforts in preparing the presentations and the willingness to share their knowledge and experience with us
- All our Members & Partners for the support to our association
- YOU all, present today, live or online, for showing your interest in EUPAVE and the concrete pavement technology

Thank you for your participation, Safe trip home...or a safe stay at home !

