



Omnicon  
GROUP

INNOVATIVE AND  
SUSTAINABLE INTO THE FUTURE

Omnicon

QAV<sup>ER</sup>tec

CoaTIB



## Omnicon

- Liquid and Powder Colors and Granules
- Concrete Admixtures
- Surface Protection and Coatings

## QAV<sup>ER</sup>tec

- Testing Equipment
- Documentation-software
- Concrete lab
- Dosing equipment

## CoaTIB

- Coatings for roof and wall systems
- Fiber cement coatings
- Fire protection
- Sound damping coatings

# Omnicon Group Denmark - new factory



Headquarter  
Production capacity:  
20.000t/year

# New administration and laboratory building



# Pigments and Color Preparations

Powder Pigments  
Liquid Color/Paste  
Granules

## Our colors are based on:

- Iron oxides
- Carbons
- Cobalt pigments
- Chromium oxides
- Titanium oxides
- Organic pigments
- Micronized pigments
- And other pigments

## Customized solutions:

- Design of customer color
- Special packaging
- Contract manufacturing
- Support in process engineering



## Synthetic iron oxides based on the production processes according to Laux, Precipitation, Penimanzoph

### Ecological evaluation

Raw materials:	
Scrap, Iron filings, Ferric Sulfate, Ferric Chloride	Recycled content: 30–60 %, Containing heavy metals, High CO <sub>2</sub> -footprint
Acids, lye	High CO <sub>2</sub> -footprint
Steam, Energy	Fossil fuels are necessary
Water	Process water
Emissions/Waste:	
Chemically contaminated water	CO <sub>2</sub> -footprint, Requires processing
Pigments containing heavy metals	Possible contamination when concrete is recycled or through leaching
GWP-value:	
1.5–4.5 t CO <sub>2</sub> -e/t pigment	

**Basis:** Chemical precipitation reaction

**Colors:** ● ● ● ● ●

**Delivery form:** powder, liquid, granules

## Natural iron oxide BL 2330e



### Ecological evaluation

Raw materials:	
Natural magnetite	No recycled content, 100 % natural, No CO <sub>2</sub> -footprint
No chemical substances	
Energy	Transformation to hydro power
Water	Process water
Emissions/Waste:	
Inert milling residues	Returned to nature
Filtrated uncontaminated water	Returned to nature
Heavy metals	No contamination
GWP-value:	
0.1–0.3 t CO <sub>2</sub> -e/t pigment	

**Basis:** Mining, concentrated and ground into a color pigment

**Colors:** ●

**Delivery form:** powder, liquid

# Concrete Admixtures and Release and Care Agents

## Admixtures

### Product range:

- Efflorescence protection
- Flow agents
- Concrete plasticizers
- Water repellents
- Retarders
- Accelerators
- Air entraining agents
- And others

### We offer individual products for:

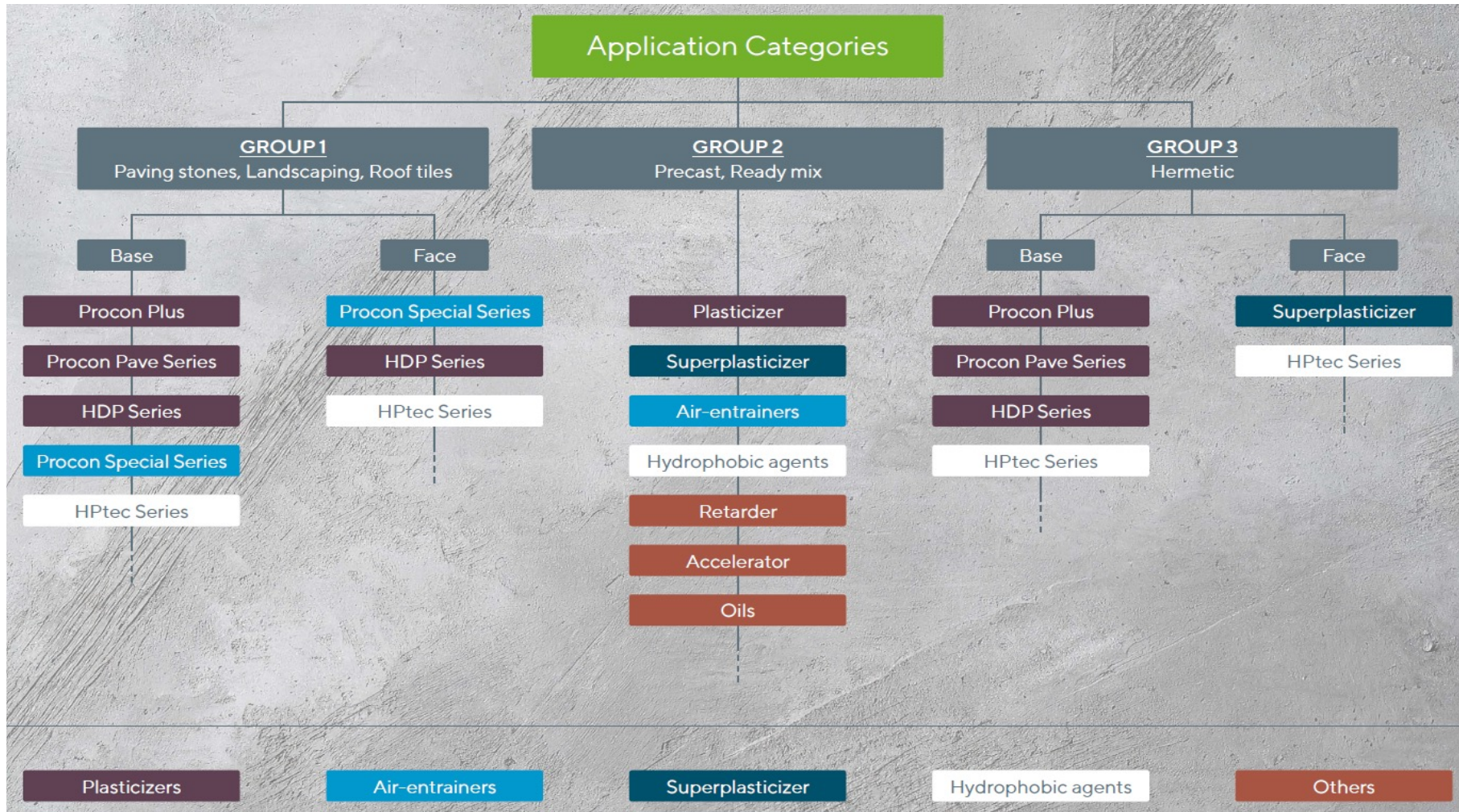
- Semi-dry concrete industry
- Precast industry
- Ready-mix industry
- Wet-cast industry
- Fiber cement industry

## Release and care agents

### Products for:

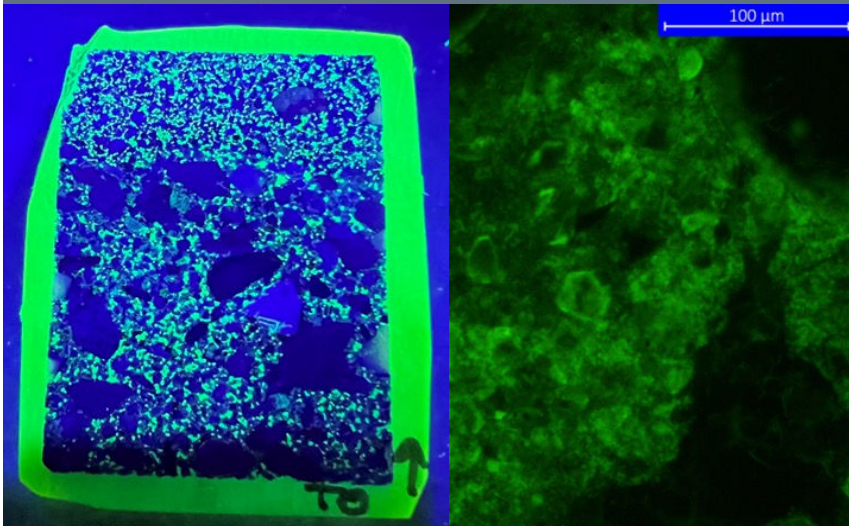
- Protection for concrete molds
- Care of production boards and molds
- Protection and care of mixing machines

# Classification of Concrete Admixtures

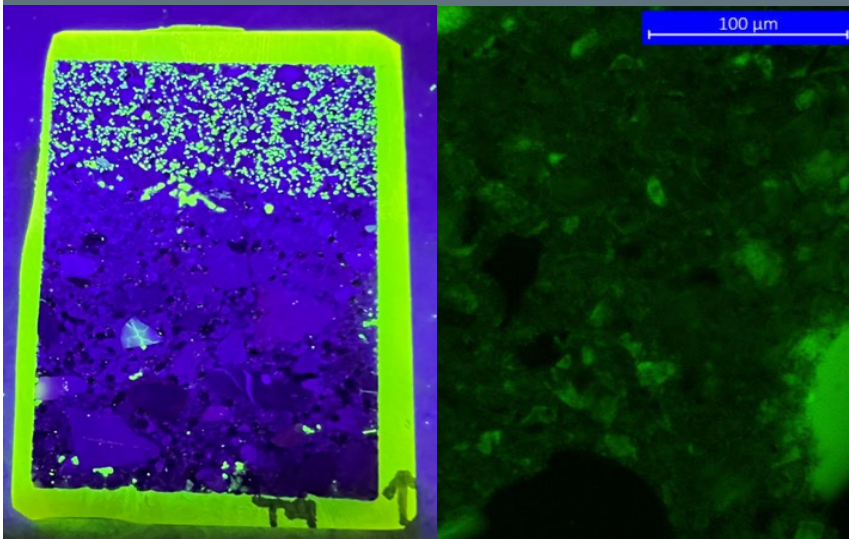




### Traditional admixture



### with 1.3% HDP-product



An analysis of a concrete paver's pore structure using an HDP-product shows:

- ✓ Insulated pores
- ✓ Minimization of pore structures and diffusion
- ✓ Higher density in the base mix
- ✓ More homogeneous structure of the aggregates
- ✓ Optimal distribution of the binder
- ✓ Higher density



# QAVER<sup>®</sup> tec

## Innovative measuring systems and building material tests

### QAVER-testing devices for quality optimization and monitoring

- Quality determination of the freshly produced concrete product

### Documentation Software

- Real-time control of all QAVER devices located in the company's own network
- Comparison of the qualities of different concrete plants

### Moisture measurement with the DARRER<sup>®</sup>

- Water determination by evaporation of the water on mineral products and concrete mixtures



CoaTIB –  
innovative coatings for  
roof and wall building  
materials

# CoaTIB – innovative Coatings

## Fiber Cement Roofing and Facade

- Corrugated sheets – water-based coatings
- Roofing slates – water based
- Facades – various combinations, high performance systems



## Digital Printing Design

- Flooring and wall
- Digital printed with protection coatings



## Concrete Tile

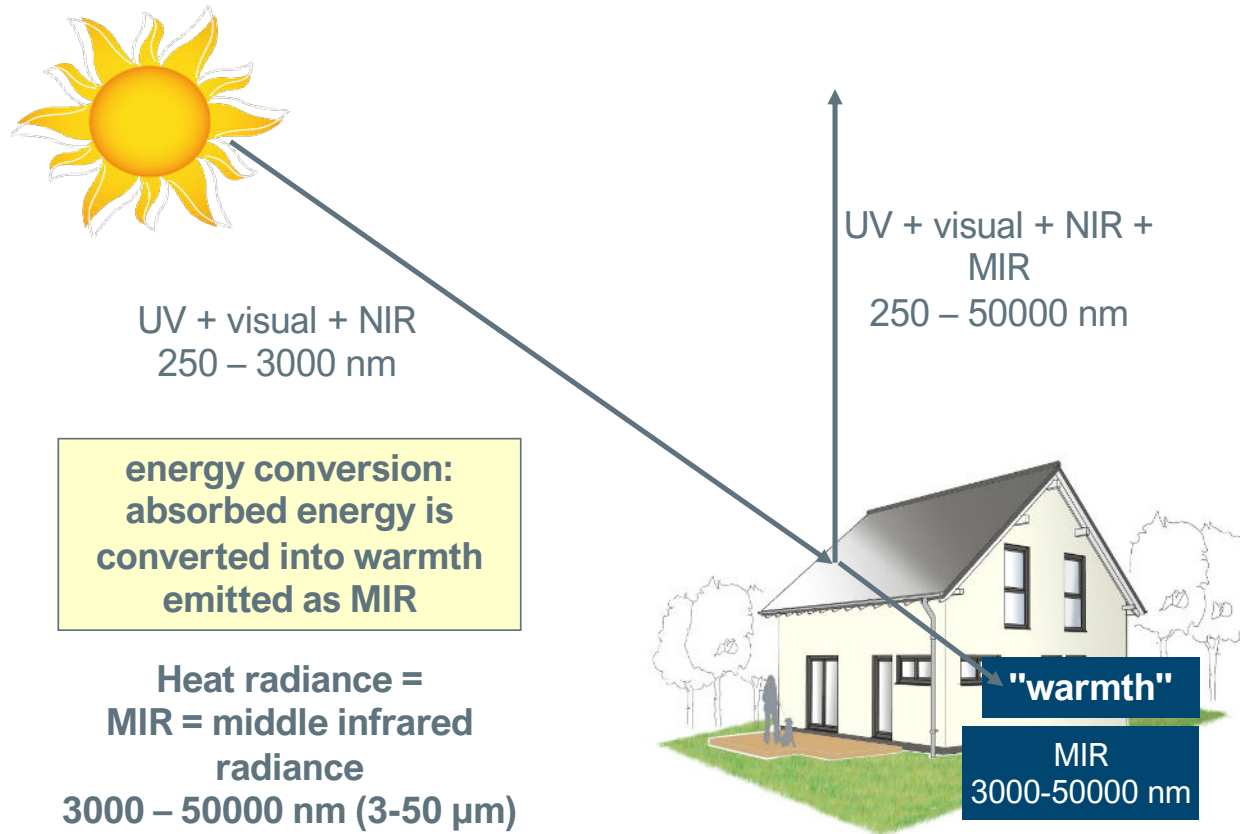
- Mainly two layer of water-based coating



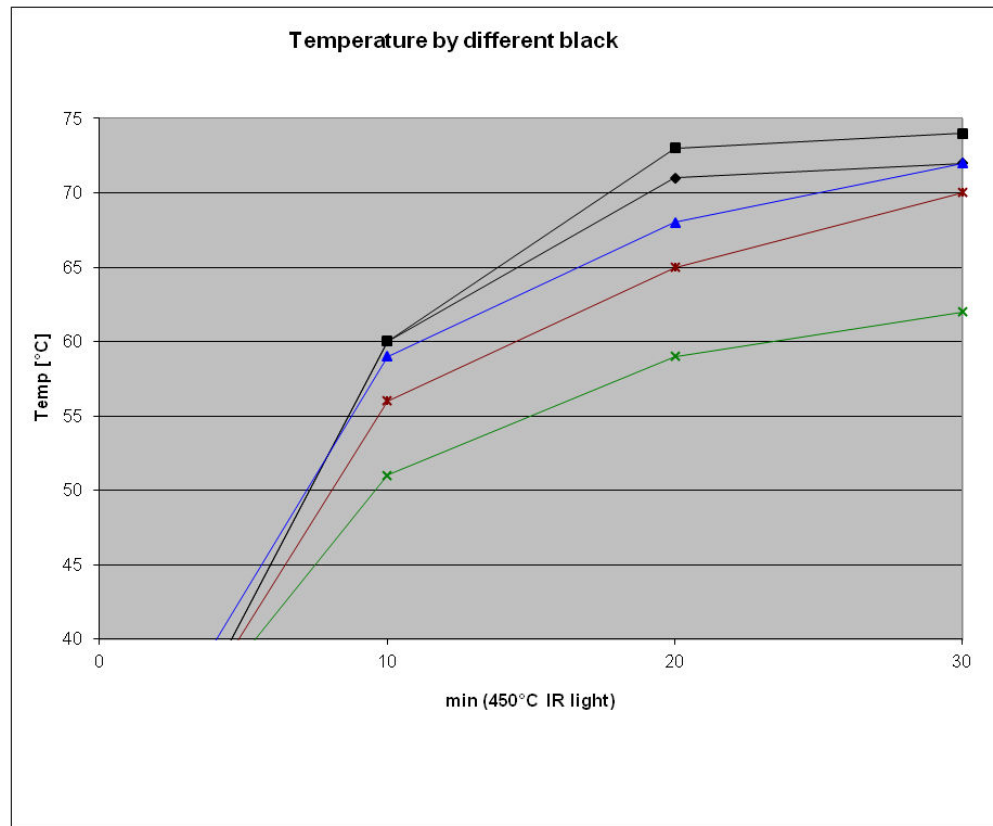
## Functional coatings

- Fire protection and sound damping
- IR-reflection

# Heat reflection coating: Energy transfer in houses



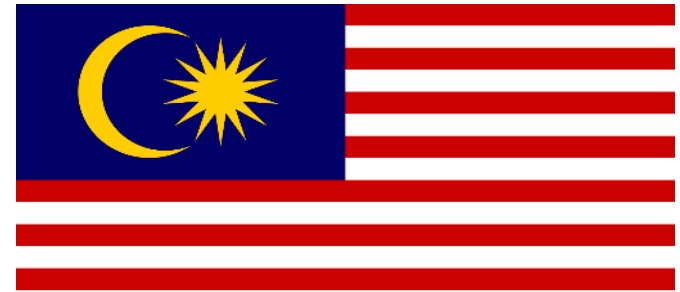
# NIR-reflecting of different black surfaces



maximum  
temperature  
difference:  
12°C

(IR-radiator)

# Languages we provide



Thank you very much  
for your attention!

