



A FUTURE WITHOUT EFFLORESCENCE

The OMNICON GROUP concept

For decades the industry has been searching for a solution to avoid efflorescence.

The solution is the concept of the OMNICON GROUP along with the use of the latest production methods and facilities. The combination of up-to-date admixtures, individual surface protection systems and advanced testing equipment guarantees a reproducible product, free of efflorescence.

**The OMNICON GROUP efflorescence-free-concept
is based on three pillars:**

**coloring and
optimization**

**testing and
documentation**

**protection and
refinement**

Our concept is unique.

Please contact us.

Simply better...



A FUTURE WITHOUT EFFLORESCENCE

The OMNICON GROUP concept

coloring and optimization

Development and
production of
color pigments
and admixtures

Meeting customers'
individual demands



testing and documentation

Inventor of the
QAV^{ER}® technology

Producer of
testing equipment

Development of
documentation and
analysis software



protection and refinement

Production of
surface protection systems

Development of
application processes



Find further information on
www.omnicon.com

Or contact us directly!
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member of

OMNICON
GROUP

ADMIXTURES OF THE NEW GENERATION

OMNICON provides high-quality concrete admixtures for use in the concrete products industry, precast and ready-mixed concrete industry.

proven-in-praxis · innovative



The production of high-quality admixtures requires comprehensive know-how. With over 20 years of experience in the production of concrete admixtures, we are ideally equipped for this challenge. Up-to-date admixtures need to have numerous of properties, due to the increasing quality requirements and new production methods.

Product	Property	Use	Face concrete	Core concrete
Procon Special	Air-entraining agent/ Efflorescence reduction agent	Colored concrete products	+	+ / 0
Procon Special Plus	Air-entraining agent/ Efflorescence reduction agent	Colored concrete products/ with coating	+	+
Procon AP	Air-entraining agent/ Efflorescence reduction agent	Paving stones	-	+
Procon Pave	Plasticizing agent	Paving stones	-	+
Procon Premium	Plasticizing agent/ Hydrophobic agent	Paving stones	-	+
HPtec	Hydrophobic agent	Paving stones	+	+
HPtec LS	Hydrophobic agent	Paving stones	+	+
HPtec LS Plus	Hydrophobic agent/ Air-entraining agent	Paving stones/ with coating	+	+
HPtec PS	Hydrophobic agent	Paving stones/ with coating	+	+ / 0
HPtec ST	Hydrophobic agent	Paving stones	-	+

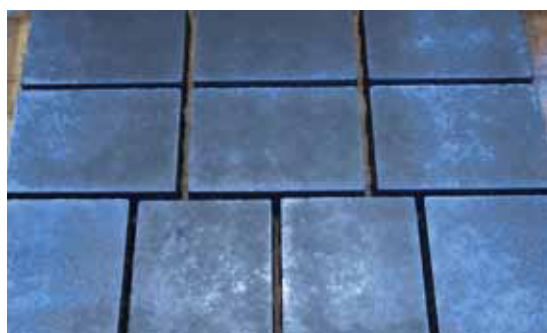
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ADMIXTURES

at the example of the penetration ability of surface protection on the wet side



Standard admixture



Optimized admixture
with optimal penetration of the surface protection
(same applied amount)

OMNICON admixtures are especially developed for the combined use with OTE-surface protection products.

Together with aqueous surface protection products, they allow optimal penetration on the wet side and long-lasting protection, while having a natural appearance at the same time. Special admixtures in the core concrete facilitate optimal compaction as well as high strength and support good filling behavior with low water absorption.

When using surface protection products it is important that surface protection and admixtures are coordinated.

The right combination forms the basis for a functional protection against efflorescence. The use of hydrophobic agents can avoid ingress of water and potential frame formation. At the same time the frost resistance of the stone is increased and thus, it is protected for years. This is clearly visible when the products are stored outside, densely packed, and efflorescence do not appear.

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OMNIXON Powder and Liquid Colors

Trademark for color strength and quality

coloring · optimization



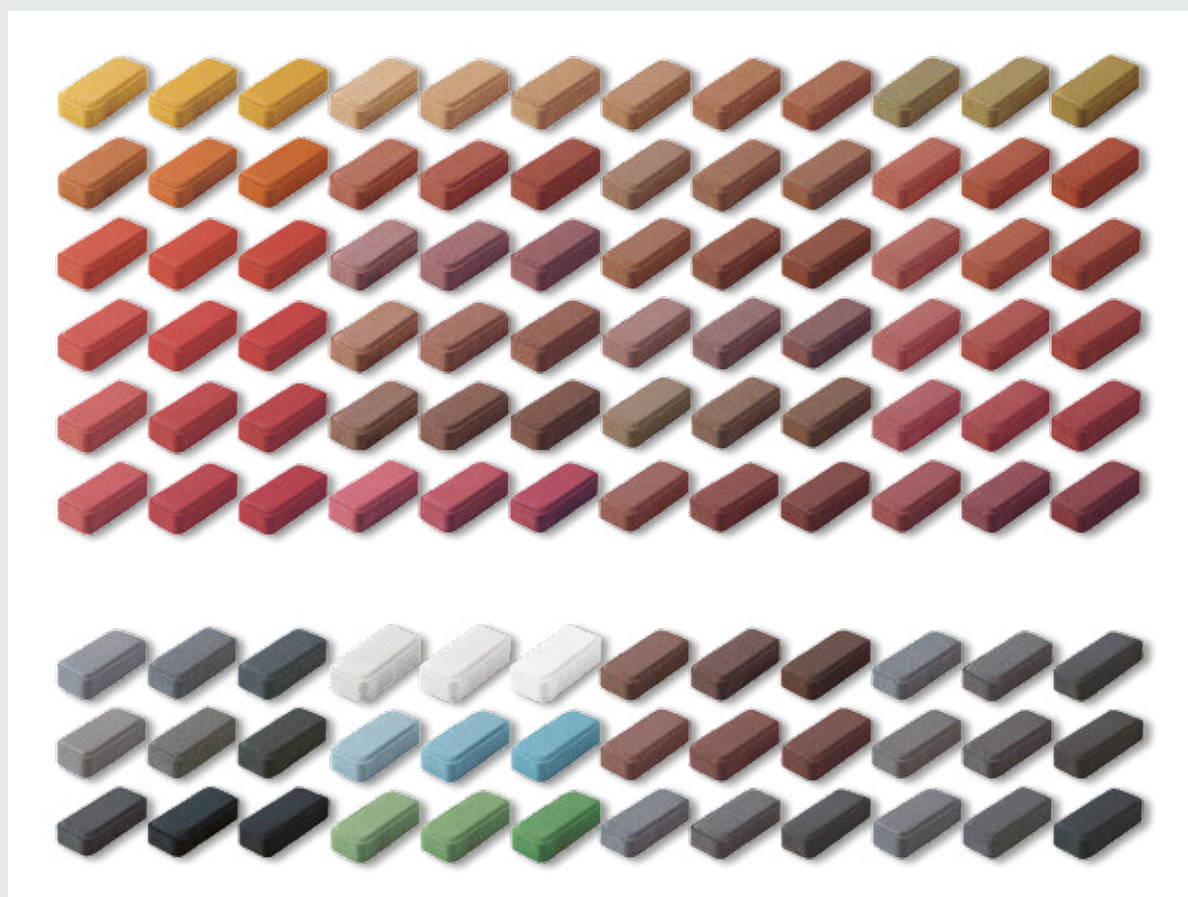
Flexibility and customer orientation make OMNICON
the perfect producer and supplier.

**Please contact us
for your individual solution.**



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OUR COLORS



Apart from our standard colors, we produce individual shades,
packaged according to the demands of our customers.

Find further information on
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SYSTEM PARTNER FOR SURFACE PROTECTION

Production of surface protection systems
and development of application processes

individual · property-specific · reliable



Reasons for surface protection:

- Protection from efflorescence
- Refinement of concrete product
- Durability of surface appearance
- Improved cleanability
- Special aesthetic or functional effects

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SURFACE PROTECTION

Quality Levels

	Uncoated	Protection gainst efflorescence	1-layer coating, film forming	wet side film forming coating	2-layer film forming coating	UV-hardening systems
Quality Level	0	1	2	3	4	5
Durability	—	0	+	++	++	+++
Reduction of efflorescence	—	+	+	++	+++	+++
Resistance against oil and other substances	—	0/+	+	++	+++	+++
Water repellent	—	+	0/+	++	++	+++
UV-resistance	—	—	+	+++	+++	+++
Scratch resistance	+++	+++	+++	++	++	+
Cleanability	—	0	0/+	++	++	+++
Overcoatable	—	+	+	+	+	—
Visual changes caused by coating	no	slightly	slightly	slightly	yes	yes
QAVER®-Technology	no	no	advisable	yes	yes	advisable
Application systems	no	spraying	spraying	spraying	spraying rolling	rolling
Position of application	x	wet or dry side	wet or dry side	wet or dry side	wet and/or dry side	two layers on dry side
Base of product	x	water based	water based	water based	Primer and Topcoat water based	Primer and Topcoat, UV-coating

The quality level of a surface protection product depends on the substrate, the application method and the process technology and thus, can differ a lot from one concrete product to another. Individual customer demands as well as existing technologies and possibilities are the most important factors for the development of an adequate surface protection system.

During the development phase all coated products are tested and optimized by means of the latest methods, which are based on extensive tests for the daily use.

For industrial production, it is important to use functional and property-specific surface protection

systems. These have to be tested and optimized for the existing concrete product. To advise and support the producer is significant for the successful implementation and operation of a surface protection system. A close cooperation between specialists from the concrete technology sector and from the paint/ lacquer industry is important in this context.

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QAV^{ER}tec

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QAV^{ER} Quality for paver

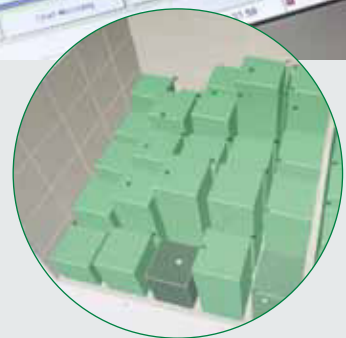
It is the innovation of the QAV^{ER}® technology
to test and document the quality of a freshly
manufactured concrete product.

testing · documentation



The QAV^{ER}® is a testing device, developed to measure the quality of the freshly produced concrete product. The following properties can be determined by the QAV^{ER}®:

- Compaction face concrete
- Compaction core concrete
- Surface permeability
- Product height
- Product weight
- Gross density
- Compaction differences over the whole production board



QAV^{ER}tec provides special analysis programs for further evaluation of the results. Besides, the network compatibility of the QAV^{ER}® makes it possible to register, evaluate and document the results of different QAV^{ER}®s at one central location.

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QAVER[®] MODELS mobile, light, base

The QAVER[®] is available in three versions:

- QAVER[®]|mobile – for an easy entry into the QAVER[®] technology
- QAVER[®]|light – the compact and individual configurable model
 - QAVER[®]|base – the fully equipped base model

QAVER[®]|mobile



- Measurements:
Compaction only
- Display on the
hand device

QAVER[®]|light



- Measurements:
individual configurable
- compact
- Network compatibility

QAVER[®]|base



- Measurements:
fully equipped
- Determination
of gross density
- Board analysis program
- Double-user-function
for parallel operation
- RFID reading unit
- Notepad

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Find the
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Hall B1 · Stand 306

QAVER[®]-TECHNOLOGY INTEGRATED

An exclusive cooperation between
HESS GROUP and QAVERTec

concrete block machines



testing technology



NEW:

Connection of QAVER[®]-technology and HESS-concrete block machines

Resulting benefits:

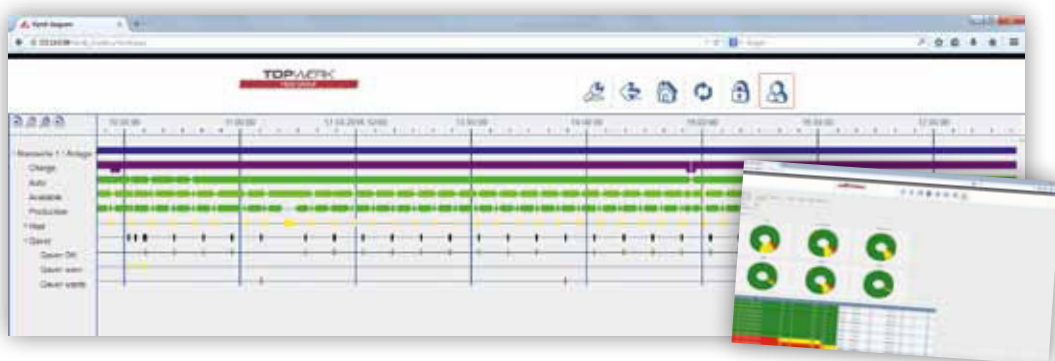
- Production control and documentation of results
- Optimization of machine settings
- Improvement of product-reproducibility
- central product administration



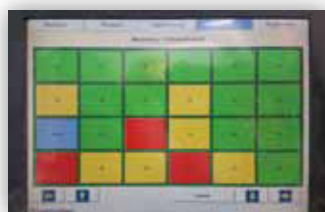
UNIQUE SYNERGY

**The exclusive cooperation
of the HESS GROUP and the QAVERTec provides outstanding benefits
for concrete product manufacturers:**

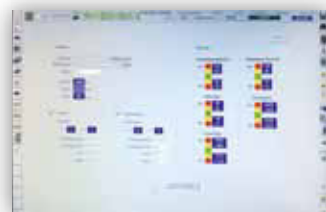
Documentation and joint batch records



Optimization of machine settings



central product administration



Benefit from the cooperation of the technological market leader for concrete block machines
and the inventor of the QAVERTec-technology.

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