BASF Construction Chemicals (UK) Ltd

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CPD Overview

At BASF, they create chemistry for a sustainable future. They combine economic success with environmental protection and social responsibility. Through science and innovation they enable their customers in nearly every industry to meet the current and future needs of society.

Their Master Builders Solutions brand brings all of BASF’s expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures. Master Builders Solutions is built on the experience gained from more than a century in the construction industry.

The know-how and experience of a global community of BASF construction experts form the core of Master Builders Solutions. They combine the right elements from their portfolio to solve specific construction challenges. They collaborate across areas of expertise and regions and draw on the experience gained from countless construction projects worldwide. They leverage global BASF technologies, as well as their in-depth knowledge of local building needs, to develop innovations that help make their customers more successful and drive sustainable construction.

The comprehensive portfolio, under the Master Builders Solutions brand, encompasses concrete admixtures, chemical solutions for underground construction, waterproofing solutions, sealants, concrete repair and protection solutions, performance grouts and performance flooring solutions.
Admixtures for Sustainable Concrete

This seminar looks at how concrete, and the use of admixtures, has evolved over the years. It will help you to understand which concrete admixtures are currently available in the market and what their benefits are in terms of sustainability. You will learn about the sustainable benefits and use of additives such as cement replacement materials and fibres. The seminar also explores the future of concrete and some of the potentially industry changing innovations such as the digitisation of construction with Virtual Design and Construction (VDC), Building Information Modelling (BIM), cement free concrete, 3D printing and automated construction. This seminar will help you to understand the following topics:
- How modern admixtures support the production and use of sustainable concrete
- The relevant European and British standards and guidelines used for specifying and designing concrete mixes
- The history of concrete evolution and the use of admixtures
- The currently available concrete admixtures and their benefits in terms of sustainability
- The sustainable benefits and use of additives such as cement replacement materials and fibres
- The future of concrete and some of the potentially industry changing innovations such as the digitisation of construction with Virtual Design and Construction (VDC), Building Information Modelling (BIM), cement free concrete, 3D printing and automated construction
- Examples of best practice, where the use of advanced admixture technologies has improved their environmental impact of some well-known structures

Material type: Seminar
RIBA Core Curriculum: Design, construction and technology
Sustainable architecture
Knowledge level: General Awareness

Seamless Flooring for Commercial and Public Buildings

This seminar looks at the design and specification of resin flooring. It will help you to understand the following topics:
- Understand environment and design drivers for the selection of seamless flooring for commercial and public buildings
- Understand specifying suitable substrates for seamless flooring applications
- Understand the different types of resin flooring that are currently available in the market
- Understand the relevant British standards and guidelines that are used for CE marking and the key physical properties necessary to produce performance flooring specifications
- Understand test methods for slip resistance
- Understand design considerations for seamless flooring applications
- Understand sustainability and environmental assessment methods
- Understand examples of best practice where seamless flooring has been successfully used

Material type: Seminar
RIBA Core Curriculum: Design, construction and technology
Knowledge level: General Awareness
Protecting Concrete Subject to Biogenic Sulphuric Acid Corrosion in Wastewater Treatment Facilities

This seminar looks at the factors to consider when protecting concrete structures subject to Biogenic Sulphuric Acid (BSA) corrosion in wastewater treatment facilities. It will help you to understand the key parameters necessary to determine successful diagnosis and protection strategies for these structures, and how to identify the types of extreme conditions encountered in wastewater facilities. The seminar also explores existing material technologies available to protect structures and how to test and measure the key properties of chemical resistance. Additionally, you will learn which British standards and guidelines should be used to quantify the performance of protective coating systems and membranes. This seminar covers the following topics:
- The key parameters to determine successful diagnosis and protection strategies for structures in wastewater treatment facilities
- The types of extreme conditions encountered in wastewater facilities
- How the quality and quantity of wastewater has evolved over time and the issues that have arisen from this change
- The evaluation of existing material technologies to protect structures
- How to test and measure the key properties of chemical resistance, crack bridging and resistance to Biogenic Sulfuric Acid (BSA) corrosion
- The relevant British standards and guidelines for the test methods that can be used to quantify the performance of protective coating systems and membranes
- Examples of best practice where the use of correct material specifications has ensured suitable and successful applications

Material type: Seminar
RIBA Core Curriculum: Design, construction and technology
Knowledge level: General Awareness

Watertight Concrete Solutions BS 8102 2009 and NHBC Chapter 5.4

This seminar looks at watertight concrete solutions and the reasons why successful waterproofing is important. It will help you to understand the following topics:
- Relevant British Standards and guidelines that need to be adhered to when building structures below ground
- The different types of waterproofing products that are currently available in the market
- Concrete and the constituents that make up a concrete mix
- The importance of admixtures in watertight concrete
- Examples of best practice where watertight concrete solutions have been successfully used

Material type: Seminar
RIBA Core Curriculum: Design, construction and technology
Knowledge level: General Awareness

Concrete Repair: Guide to Good Practice BS EN 1504: 2009

This seminar covers the best practice methodology to achieve long lasting successful concrete repairs. It will help you to understand the following topics:
- The relevant standards and guidelines that need to be adhered to for achieving durable concrete repairs
- The mechanics and electrochemistry behind the corrosion process
- Strategies for analysing the defects in deteriorating concrete structures
- Commonly used repair and protection methods and the selection process for suitable repair methods and materials in relation to British Standard BS EN 1504

Material type: Seminar
RIBA Core Curriculum: Design, construction and technology
Legal, regulatory and statutory compliance
Knowledge level: General Awareness

Classifications
Subject/Product Areas ( Cl/SfB)

Substructure
Floor beds, ground floors, basements > Proofing services
Floor beds, ground floors, basements > Tanking, guniting, grouts

Structure
Structure > Concrete structures
Floors, including beams > Floor insulation

Finishes
Finishes > Floor and roof screeds, aggregates
Floor finishes: jointless > Cement-based flooring
Floor finishes: jointless > Flooring distinguished by aggregate
Floor finishes: finishes, accessories > Concrete curers, hardeners, seals
Floor finishes: finishes, accessories > Concrete repair products
Floor finishes: finishes, accessories > Flooring adhesives, bonds, grouts
Wall finishes: external > External wall coatings
Wall finishes: internal > Internal wall coatings
Floor finishes: jointless > Resin-based flooring
Floor finishes: jointless > Flooring reinforcements, toppings
Floor finishes: jointless > Special jointless flooring
Floor finishes: finishes, accessories > Flooring joint fillers and sealants
Roof finishes > Roofing membranes

Fittings
Sanitary and bathroom fittings > Factory-assembled bathrooms

External works
Landscaping, hard surfaces, pools > Paving

General products
Concrete > Cement admixtures
Concrete > Concrete colouring pigments
Concrete > Fibre reinforcement for concrete
Concrete > Waterstops for in situ concrete
Flexible proofing/separating sheet membranes > Foils, building papers, sheet dp membranes
Plaster, render > Plasters and renderings
Rigid sheets, boards > Plastics boards, sheets
Paints, varnishes, protective treatments etc. > Paints and primers
Paints, varnishes, protective treatments etc. > Special paints, coatings, films
Paints, varnishes, protective treatments etc. > Textured coatings
Paints, varnishes, protective treatments etc. > Waterproof paints, coated dp membranes
Fixings and fastenings, ironmongery > Fixings and fastenings
Mortars, limes > Mortars
Adhesives, sealants, gaskets > Adhesives
Adhesives, sealants, gaskets > Joint sealants and fillers
RIBA Core Curriculum areas

Design, construction and technology
Knowledge level: General Awareness

Sustainable architecture
Knowledge level: General Awareness

Legal, regulatory and statutory compliance
Knowledge level: General Awareness