

# Betonflair W

## Ready-to-use, pigmented surface protection system

### Product Properties

- Water-based pure acrylate
- Weather and UV-resistant, resistant to de-icing salts
- Open to water vapour diffusion, reduces carbonation
- Can be applied by roller or spraying
- Tested, approved and independently monitored according to DIN V 18026, as OS 2 and OS 4 system
- Certified in accordance with EN 1504 part 2

### Areas of Application

- Concrete protection system against aggressive pollutants
- Surface protection for non-accessible and non driven-on areas
- Carbonation protection as part of concrete repair measures
- Architectural colour design on fair-faced concrete structures
- Suitable for use in areas sprayed with de-icing salts
- REACh-assessed exposure scenarios: periodical water-contact, periodical inhalation, application
- Principle 1, 2 and 8; procedure 1.2, 2.2 and 8.1 (EN 1504-9)

### Application

#### Substrate Preparation

See leaflet "General Application Advice for Surface Protection Systems".

#### Application

The surface protection system Betonflair W consists of the products Betonflair WG and Betonflair WS. All Betonflair W products are ready-to-use and must be mixed thoroughly before use.

Application by roller, airless spraying or by using worm pumps with adjustable discharge flow. For spraying application please ask for our assistance or the equipment planner leaflet. Application must not be done during rain, high humidity, frost or frost-threat. Freshly laid layers must be protected from dew, rain and frost.

#### Standard System

Betonflair W is always applied in two layers on all fine fillers of the Nafufill-range. Betonflair W is tested and approved in combination with Emcephob WM (hydrophobic agent) and with the fine fillers Nafufill KM 103 and Nafufill KM 110.

#### Special System

On all other substrates priming with Betonflair Uniprimer is necessary before application. Then Betonflair W is applied as in the standard system.

#### Overworking Times, Rain Proof

See table "Technical Data".

#### General Information

Coverage depends on condition of the substrate which may lead to over- or under-consumption. Please observe the surcharge for surface roughness given in the application advice.

The effect of the colouring on the object also depends on a number of factors, e.g. the light, the perspective, the surrounding and substrate conditions (smooth/rough, absorbent/impervious). Therefore, the colouring effect is often a matter of subjective judgement. Choosing a shade of a small colour pattern is very difficult. We therefore recommend to apply a trial surface with the chosen system set-up. Connecting surfaces should only be applied with material from the same batch.

Depending on the chosen shade, e.g. bright yellow or bright red, there might be differences in the opacity. It might therefore be necessary to apply several top coats. Smoothly moulded substrates usually also need two top coats.

## Technical Data for Betonflair W

Characteristic	Unit	Value*	Comments
Density	kg/dm <sup>3</sup>	1.02	Betonflair Uniprimer
		1.30	Betonflair WG
		1.40	Betonflair WS
Dry to touch	hours	approx. 1	Betonflair Uniprimer and Betonflair WG/ Betonflair WS
Overcoating times	hours	approx. 1	Betonflair WG on Betonflair Uniprimer
		approx. 1	Betonflair WS on Betonflair WG
Diffusion resistance against water vapour	m	1.9	at 168 µm dry layer thickness
Diffusion resistance against carbon dioxide	m	> 350	at 176 µm dry layer thickness
Coverage**	ml/m <sup>2</sup>	approx. 100	Betonflair Uniprimer
		approx. 180	Betonflair WG
		approx. 200	Betonflair WS
Solid content	%	40.0	Betonflair WG
		45.0	Betonflair WS
Rain proof	hours	3 - 6	Betonflair WG and Betonflair WS
Application conditions	°C	≥ 8 - ≤ 30	air, material and substrate temperature relative humidity above dew point
	%	≤ 85	
	K	3	

## Product Characteristics for Betonflair W

Delivery	Betonflair Uniprimer - 10 litre packs Betonflair WG and Betonflair WS - 17.5 litre packs and 120 litre barrels
Storage	Can be stored for at least one year in original unopened packs. Keep dry and cool and protect from frost!
Disposal	Packs must be emptied completely.
EU-regulation 2004/42 (Decopaint standard)	Betonflair WG: RL2004/42/EG All/j (75/40 g/l) max 38 g/l VOC Betonflair WS: RL2004/42/EG All/j (75/40 g/l) max 32 g/l VOC

\*All values have been determined at 23 °C and 50 % relative humidity.

\*\* The coverage rates depend on roughness, absorbency and type of substrate. To determine the object-specific coverage, we recommend to lay a sample area. Please note the surface roughness additions in the "General Construction-Supervision Certificate".

**Note:** The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 06/12. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.