

# Zentrifix F 21

Crack-bridging 1C polymer-cement mixture



## PRODUCT PROPERTIES

- One-component, polymer-modified
- Temperature-resistant up to -20 °C
- Open to water vapour diffusion, slows carbonation
- Resistant to frost-thaw and de-icing salts, chloride-proof
- Hand- and wet spray application
- May be smoothed and finished
- Curing-free
- Excellent adhesion
- Compatible with systems of the MC-Color Flex-line
- Complies with all stipulations of the TL/TP OS for OS 5b-systems
- Normal flammable, building material class D-s2, d0 according to EN 13501-1

## AREAS OF APPLICATION

- Surface protection system for structural and civil engineering
- Coating for the protection of concrete structures with a high risk of cracking
- Waterproofing according to DIN 18533 for water exposure classes W1-E, W3-E and W4-E
- Certified according to EN 1504 part 2 for principle 1, 2 and 8, procedure 1.3, 2.2 and 8.2
- REACH-bewertete Exp.szenarien: Inhalation periodisch, Verarbeitung

## APPLICATION ADVICE

**Substrate Preparation:** See leaflet “General Application polymer-cement-mixtures”.

**Mixing:** Zentrifix F 21 is added to the water under constant stirring and mixed until a homogenous, lumpfree and workable coating is achieved. Cage paddle mixers or fastly rotating double mixers must be used for mixing. Mixing by hand and preparation of partial quantities is not allowed. Mixing takes at least 3 minutes.

**Mixing Ratio:** Please refer to the “Technical Data” table. For a 20 kg pack of Zentrifix F 21 approx. 4.2 - 4.4 litres of water are required. As with other cement-bound products the quantity of added water may vary.

**Application:** Zentrifix F 21 is applied in two work-steps, using trowels, floats, rubber squeegees or wet-spraying method. For spray-application use a spiral pump with a variably adjustable discharge flow. Please ask for our assistance or the equipment planner leaflet.

**Priming:** During the first work-step a primer is applied with a rubber squeegee. If such a coat is applied by spraying it must be worked into the substrate subsequently.

**Coating:** During the second work-step the coating is smoothed or sprayed onto the load-bearing primer coating with a layer thickness of 2 mm. The minimum dry layer thickness must be applied in accordance with the water exposure class: 3.0 mm for for water exposure classes W1-E and W3-E and 2.0 mm for water exposure class W4-E.

**Finishing:** To achieve a smooth surface the coating can be smoothed and finished with a wet, medium-hard sponge. The ideal time for this work-step depends on existing local climatic conditions. When using the spraying method the surface may be left unfinished.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	p.b.w.	100 : 21 - 22	powder component: water
Working time	minutes	45	at 8°C
		30	at 20°C
		20	at 30°C
Application conditions	°C	$\geq 8 \leq 30$	air, substrate and material temperatures
	%	$\leq 80$	rel. humidity
	K	3	above dew point
Consumption (fresh mortar)	kg/m <sup>2</sup>	0.7 - 0.9	Base filler
		3.5	coating à 2 mm
Consumption (dry mortar)	kg/m <sup>2</sup> /mm	1.45	
Layer thickness	mm	1.2	minimum layer thickness per pass/operation
		2.5	maximum layer thickness per pass/operation
		4	maximum total layer thickness
Fresh mortar bulk density	kg/dm <sup>3</sup>	1.44	
Drying time <sup>1)</sup>	days	approx. 7	
Overworkable after	hours	12	levelling / basic filling
		2	basic filler / 1st layer
Rain resistant after	hours	approx. 6	depending on temperature
Resistance to diffusion (against water vapour)	m	< 5	at 2000 µm dry layer thickness
Resistance to diffusion (against carbon dioxide CO <sub>2</sub> )	m	> 800	at 2000 µm dry layer thickness
Crack-bridging class (dynamic)		B2	at -20°C
		B3.1	at -20°C
Crack-bridging class (static)		a3	at -20°C
Crack-bridging (static)	mm	0.69	at -20°C

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

1) Ensure compliance with application conditions.

Delivery form	bags à 20 kg
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.
Packaging disposal	Make sure single-use containers are completely empty.

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2200010335]