MC-Klebeset

MC-Klebeset HF/MC-Quicksolid

Bonding adhesive with especially developed application

The results of pull-off strength and adhesion strength tests are always depending, among other things, on the used adhesive. The MC-Klebeset HF is an application technology with the bonding adhesive MC-Quicksolid. MC-Quicksolid is especially characterised by its short hardening time. MC-Klebeset HF is used for material tests, diagnoses and internal and external surveillance.

MC-Quicksolid unifies advantages of different adhesives. Its own adhesion strength is very high even at short hardening times and there are no plasticising processes on substrates containing polymers or synthetics. The adhesive is easy to apply, solvent-free and can be applied drip-free. The MC-Klebeset HF includes, among other things, a special mixing gun which ensures an optimum mixing ratio of the two-component adhesive.

Complete System MC-Klebeset HF

Versatile Areas of Application
MC-Quicksolid is especially used as bonding adhesive for determination of adhesion- / pull-off strength of concrete, PCC mortar and coatings. Due to its high adhesion- and pull-off strength MC-Quicksolid can also be used for other areas of application.

Please see table 1 for possible combinations.

Table 1:
Combinations with MC-Quicksolid

	1	2	3	4	5	6
1	+	+	+			
2	+	+	+			
3	+	+	+			
4			+	+		
5			+		+	
6			+			+

1: concrete
2: PCC mortar
3: steel
4: GFK
5: copper
6: aluminium

Before application of MC-Quicksolid the substrate must be dry, clean and free from all loose particles, dust, oil and other contaminants. For bonding strength tests on reaction resin coatings the substrate must be slightly roughened and afterwards cleaned with a solvent, e. g. acetone. One-component coatings can be slightly cleaned with a non-plasticising solvent, e. g. test petrol.

The reaction time of MC-Quicksolid is between 42 - 58 seconds, depending on temperature. Therefore we recommend to prepare the single stamps so far that a quick application of the material is ensured. For longer waiting periods a new mixer must be used.

The hardening time depends on the temperature of the structural component:

Temperature	Hardening Time
5 °C	approx. 3 hs
10 °C	approx. 2 hs
20 °C	approx. 45 min.
30 °C	approx. 30 min.

The MC-Klebeset HF is a complete system. It includes:

- MC-Quicksolid adhesive
- mixing gun
- static mixer
- gloves, goggles

Easy Application
Before the gun can be used it must be opened, filled with a two-component cartridge and afterwards closed again. The shutter of the cartridge is removed and a static mixer is fixed instead. Before the static mixer is fixed please ensure that both cartridge openings are free. Already hardened material in the openings must be removed to ensure an unimpeded flow of material.

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With such a prepared gun the MC-Quicksolid adhesive is pressed out of the cartridge. Both components are optimally mixed in the static mixer so that it is ready-to-use when coming out of the gun. When using a new cartridge we recommend not to use the first 3 cm for adhesion purposes.

After finishing the adhesion works the mixer is removed and the cartridge is re-closed. The cartridge can remain in the gun so that it is already prepared for the next use.

Technical Data: Two-component adhesive / MC-Quicksolid

Characteristic	
Mixing ratio	1 : 1
Reaction time	42 - 58 seconds
Delivery	two-component cartridge, 25 ml per chamber
Coverage	approx. 15 stamps (Ø 50 mm) per cartridge
Storage	Can be stored in original sealed packages at temperatures below 30 °C in dry conditions for at least 1 year. Protect from frost! The same requirements are valid for transport.

Required pull-off strengths of the substrate

	1	2	3
	System	**Average** (N/mm^2)	**Lowest single value** (N/mm^2)
1	Concrete replacement systems	≥ 1.5	1.0
2	Surface protection systems without fine filler	≥ 0.8	0.5
3	Polymer-cement mixtures	≥ 1.0	0.6
4	Surface protection systems with fine filler	≥ 1.3	0.8
5	Reaction resin coatings	≥ 1.5	1.0

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 05/16. 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.

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