

Product Overview:

FlexMaster Pro is a three-component, water-swelling hydrogel. It boasts exceptional mechanical properties, particularly an extremely high elongation capacity. This gel-like material offers a variable gel time ranging from 15 seconds to 5 minutes, which can be adjusted by modifying the quantity of component C added, as detailed in the provided gel time table.

FlexMaster Pro's versatility makes it suitable for a variety of applications. It can be used for curtain grouting, effectively stopping water ingress. Additionally, it can be employed in the renovation of expansion joints, leveraging its ability to accommodate movement and deformation without compromising its integrity.

Technical Data:

All values listed are approximations.

Component A:

Makeup	Liquid
Colour:	Clear
Density at 23°C (g/cm ³)	1.25
Dynamic viscosity at 23°C (mPas)	62

Component B:

Makeup	Liquid
Colour:	Clear
Density at 23°C (g/cm ³)	0.9
Dynamic viscosity at 23°C (mPas)	7.5

Component C:

Makeup	Solid
Colour:	White
Density at 23°C (g/cm ³)	2.6
Apparent density at 23°C (g/cm ³)	1.1

A + B + C

Reaction temperature	Exothermic
Gel time (sec)	15 - 300
Total curing time (min)	1 - 40
Fracture elongation	720%

Although the information and specifications provided in this document are, to the best of our knowledge, accurate and truthful, Deutsch Master recommends that users conduct a trial to confirm the suitability of the product for the intended application. Please note that regional climatic conditions may result in variations in the product's performance. No warranty, express or implied, is provided or implied in connection with any recommendations or suggestions made by Deutsch Master, its representatives, agents, or distributors. The information contained in this technical data sheet is effective from the date shown and supersedes all previous data. Customers should check with their local Deutsch Master office to ensure they are referencing the current version.

Formulation Instructions:

- 1) Component A and B are mixed at a ratio of 40:1, for a recommended 3 minutes
(This activates FlexMaster Pro)
- 2) Component C is mixed, for a recommended 3 minutes, with 85% to Component A of water.
- 3) Mixing Ratio
(A + B) : (C + Water) 1 : 1 (parts per volume)

Gel time table:

Gel time with relation to mass of C and Temperature		Component C added as a % mass of water			
		0.24%	1.2%	3.5%	5.9%
Temperature (°C)	25	1:20	0:30	0:15	0:10
	20	1:30	0:45	0:20	0:15
	15	2:30	1:00	0:30	0:20
	10	4:30	1:30	0:45	0:25
	5	7:20	2:40	1:10	0:40

Storage:

FlexMaster Pro has a minimum shelf life of 12 months, in dry conditions as temperatures between 15-25°C. Product should be kept out of direct sunlight. Should you wish to use the product after 12 months, we recommend a sample be sent to Deutsch Master for quality testing.

Disposal:

General waste can be used for small quantities of reacted product. Singular components should be disposed of in accordance with local laws.

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