

FlexMaster

Product Overview:

FlexMaster is a three-component, water-swelling hydrogel formulated on an acrylate basis that cures to an elastic, flexible product. One of the key features of FlexMaster is its low blending viscosity, which is almost equivalent to the viscosity of water. This property allows for easy application and penetration, making it a suitable choice for projects where traditional, higher-viscosity materials may not be practical.

The low-viscosity nature of FlexMaster enables construction professionals to utilize it in a variety of applications, including the creation of grout curtains and ground stabilization. The Gel time of FlexMaster can be set by adjusting the amount of Component C, approximate data can be seen below.

Technical Data:

All values listed are approximations.

<u>Component A:</u> Makeup Colour: Density at 23°C (g/cm ³) Dynamic viscosity at 23°C (mPas)	Liquid Blue 1.20 40
Component B:	
Makeup	Liquid
Colour:	Clear
Density at 23°C (g/cm³)	1.1
Dynamic viscosity at 23°C (mPas)	270
Component C:	
Makeup	Solid
Colour:	White
Density at 23°C (g/cm³)	2.6
Apparent density at 23°C (g/cm³)	1.1
<u>A + B + C</u>	
Reaction temperature	Exothermic
Gel time (sec)	15 - 3000
Total curing time (min)	2 – 75
E-modulus (MPa)	0.25
Water absorption	100%
Blending Viscosity at 23°C (mPas)	4.0
Fracture Elongation	500%

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.



FlexMaster

Formulation Instructions:

- 1) Component A and B are mixed at a ratio of 20:1, for a recommended 3 minutes (This activates FlexMaster)
- 2) Component C is mixed, for a recommended 3 minutes, with 90% to Component A of water.
- Mixing Ratio
 (A + B) : (C + Water)

1:1 (parts per volume)

Gel time table (min:sec):

Gel time with	relation to	Component C added as a % mass of water			
mass of C and Temperature		0.5%	1.1%	2.7%	5.5%
Temperature	25	0:45	0:25	0:15	0:10
(°C)	20	0:55	0:30	0:20	0:15
	15	1:10	0:50	0:25	0:20
	10	1:55	1:10	0:35	0:23
	5	3:10	1:15	0:40	0:25

Storage:

FlexMaster 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.

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.