

# MASTERFLEX 700 FR POURING GRADE

## Description

MASTERFLEX 700 FR pouring grade is a pourable 2-component polysulphide-based joint sealant.

## Applications

MASTERFLEX 700 FR pouring grade is used for sealing inclined floor joints between foot access and traffic areas (inclination > 2 %) especially where an effective seal against potentially waterpolluting substances is needed, for example in refuelling areas at filling stations and for other impervious areas.

## Properties

MASTERFLEX 700 FR pouring grade is elastic and resistant to a wide variety of substances such as fuel and oil (see chemical resistance list). It is not suitable for permanent exposure to water.

## Substrate requirements

MASTERFLEX 700 FR pouring grade is applied to surfaces which have been primed with MASTERFLEX 700 Primer A SP (for absorbent substrates), MASTERFLEX 700 Primer N (for non-absorbent surfaces) or MASTERFLEX 700 Primer FE (for steel). At the time of application, the surface to be coated must be clean, dry and free from oil, grease and substances with a parting effect. The joint must be filled with closed-cell round polyethylene string which remains in position as the sealant is applied to the joint. The string must not be damaged as it is inserted.

The temperature of the substrate must be at least 3 K above the ambient dew point temperature. If the sealant is to be used at the edges of concrete structures exposed to aggressive fluids, the edges must be sufficiently impervious to fluids. The depth of liquid penetration must not exceed the width of adherence of the seal material. When the sealant is applied, the concrete must be at least seven days old and have reached at least 70 % of its 28-day strength value.

## Application instructions

MASTERFLEX 700 FR pouring grade is supplied with component A and component B in the correct ratio for mixing. To mix the components, it is important to proceed as follows: first, pour the entire component B into the container of component A. Make sure that you have in fact removed all the component B from its can (scrape out any residue). To ensure intensive mixing and achieve a homogeneous consistency, the two components must be mixed thoroughly with a slow stirrer at about 300 rpm. The material at the bottom and edges of the container must also be mixed. Mixing must continue until a homogenous substance without any sludge is produced. The components must be mixed for at least three minutes. Do not process the

material directly from the container in which it is supplied. After the components have been thoroughly mixed, transfer the mixture to another clean pot and continue mixing for about 1 minute.

During mixing, the temperature of the two components should be between 15 and 25 °C. Following mixing, the material may either be filled into a manual spray gun or the container may be inserted into a pressure unit with hose and nozzle. When applying the joint sealant, it is important to note the following points. The primed sides of the joint must be absolutely dry before the sealant is inserted. The curing times of the primer must be complied with. Longer curing times are required at lower temperatures, while curing times at higher temperatures may be shorter. The joint edge must not be used as an adhesion surface. During the processing time of the sealant, any bubbles which may form on the seal surface may be removed using a spatula or a soft, dry brush.

## Application example

1. Sealing of moving joints in the ground areas of impervious surfaces with joint widths from 10 to 12 mm.
  - 1.1 For surface preparation, see "substrate requirements"
  - 1.2 Apply primer to sides of joint in accordance with instructions (see technical information sheet).
  - 1.3 Insert MASTERFLEX 700 FR Pouring Grade using manual application gun.

Width of joint	Depth of joint	Consumption
10 mm	10 mm	100 ml
20 mm	20 mm	400 ml

## Systems tested

The material is generally approved by the construction authorities for use at facilities for the storage, filling and handling of potentially water polluting liquids.

European Testing Approval nos.:

- ETA-05/0258
- ETA-06/0223

## EU Regulation 2004/42 (Decopaint Guideline)

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive).

## Storage conditions

Tightly closed containers may be stored in a dry area at temperatures between 15 and 25 °C. Direct sunlight and temperatures below +15 °C must be avoided. Under these conditions, the material has a pot life of six months.

**Physiological behaviour/precautions**

When cured, MASTERFLEX 700 FR pouring grade is physiologically harmless. The following precautions must be taken when applying this material: Avoid contact with the skin; wear impermeable protective gloves and goggles. Do not eat, smoke or use any naked lights during processing. Information on special risks and safety instructions, as well as transportation instructions, is given in the safety data sheets.

**Technical data**

Density (DIN 53217)		g/ml	1.67
Volume		%	100
Viscosity			pourable
Mixing ratio	A : B	by weight	100 : 10
Pot-life	at 23 °C 50% rel. hum.	h	1 - 2
Curing time	at 23 °C 50% rel. hum.	h	24 - 48
Permissible ambient and substrate temperatures		°C	min. 5 °C max. 40
Colour	grey, black		
Packaging (standard)		l	4
		l	10

**Technical data cured material**

Shore A hardness		at 23 °C	approx. 25
Tensile strength (for 100% elongation)	at 20 °C	N/mm <sup>2</sup>	approx. 0.32
	at - 20 °C	N/mm <sup>2</sup>	approx. 0.48
Retraction capacity		%	> 80
Permissible distortion		%	25
Temperature resistance (without chemical stress)		°C	-20 up to 50

*The above figures are intended as a guide only and should not be used as a basis for specifications.*