

EPOCAST



TECHNICAL BULLETIN – EPOCAST F INFO 9 - 8 - 2 - 36- F - E

Revised 07/2020

CHARACTERISTICS

EPOCAST F consists of a filled mixture of specially chosen polyols curing with isocyanates to elastics polyurethane form materials. Due to the low exothermal reaction during the curing process – even of larger quantities – and the low shrinkage stress the chocking compound is excellently suitable for pouring of sensitive pressured devices and elements. **EPOCAST F** is characterized by long application times and smooth surfaces after curing even at increased air humidity.

UNIT SIZE

1 unit EPOCAST F	(Resin and Hardener)	3,7 Ltr.
	Net Weight Resin	4,0 kgs
	Net Weight Hardener	1,0 kg

WORKING PROCEDURE

Before taking the resin out of the can the resin is to be mixed homogeneously with a mixing tool. Avoid formation of bubbles!

Mix the resin and hardener in weight relation 100:25 or 4:1. The mixing procedure should be repeated after a short time due to a pre-reaction which causes full sociability of the resin and hardener components.

PERIOD OF APPLICATION

After mixing of resin and hardener immediately starts a reaction which limits the period of application to 60 min. at room temperature. Higher temperatures reduce the period of application.

SHELF-LIFE

The shelf-life of EPOCAST F is 6 months after production.

CURING PROCESS

At room temperature the curing process is finished after approx. 36 hours. Even high air humidity (93%) extremely smooth surfaces can be achieved with this pouring system. Increased temperatures during curing (e.g. 60°C - 1 hour).

PHYSIOLOGICAL CHARACTERISTICS

This product is a processed reaction medium on basis of various polyoles which is principally not injurious to health. Longer contact with the skin may cause in special cases irritation of the skin. Therefore certain protection measures, in general those which are usually applicable for handling of chemicals, should be considered.

Resin compounds (mixture with isocyanates) are to be treated according to special measures for this hardener group.

Enclosures: Technical Data (Laboratory data)

TECHNICAL DATA (LABORATORY DATA) EPOCAST F

SYSTEM SPECIFICATIONS				
PROPERTY	CONDITION	RESIN	HARDENER	UNITS
VISCOSITY DIN 53019	25°C	1050 ± 150	110 ± 30	mPa*s
DENSITY DIN EN ISO 2811-2	20°C	1.40 ± 0.05	1.23 ± 0.05	g/cm ₃
SHELF LIFE	23°C	6	6	months

TYPICAL SYSTEM CHARACTERISTICS

PROPERTY	CONDITION	VALUE	UNITS
COLOR RESIN		dark blue	
COLOR HARDENER		brown transparent	
VISCOSITY IO-10-50 RESIN	25°C	1200/1200	mPa*s (0,17/1,7 sec-1)
VISCOSITY IO-10-50 HARDENER	25°C	-/140	mPa*s (0,17/1,7 sec-1)
MIX RATIO BY WEIGHT (RESIN:HARDENER)		100:25	Parts by weight
MIX VISCOSITY DIN 53019	25°C	800	
PROCESS TIME (15 ML MIXTURE)	23°C	150	min

TYPICAL CURED SYSTEM CHARACTERISTIC (POST CURE BEFORE MEASUREMENT 24H/23°C + 16H/80°C)

PROPERTY	CONDITION	VALUE	UNITS
THERMAL CONDUCTIVITY DIN 52613		0,36	W/m*K
GLASS TRANSITION TEMPERATURE IEC 61006		-10	°C
SPECIFIC GRAVITY DIN 16945	20°C	1.36 ± 0.05	g/cm ³
HARDNESS ISO 868		70 ± 10	Shore A
TENSILE STRENGTH DIN 53455/457		2,5	MPa
WATER ABSORPTION ISO 62	24h RT	0.36	%

All data and statements made herein are based upon laboratory tests and field experiences, but are made without any representation or guaranty of accuracy.

Our products are sold on the conditions that the user himself will evaluate them to determine their suitability for his own purpose before adoption.