

EPOCAST



TECHNICAL BULLETIN – EPOCAST 36-P INFO-36-P-E-2017-REV.A

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INTRODUCTION

EPOCAST 36-P is a trowelable thixotropic 2-component epoxy paste especially developed for installation of LPG/LNG tanks and other containment systems.

EPOCAST 36-P is a further development of our worldwide proven chocking/grouting system EPOCAST 36® and is everywhere in application where it is not practical to use a free flowing resin.

EPOCAST 36-P can be extremely loaded. It has good adhesive properties, even at very low temperatures.

EPOCAST 36-P has been approved by all major Classification Societies for temperatures from +80°C to -110°C and to -165°C.

TYPE OF APPLICATION

Mounting of LPG/LNG tanks, chemical tanks and other containment systems, sliding doors, anchor plates etc. Positioning of laminated wood blocks to tank surfaces and tank saddles, eliminating all precision fitting.

SPECIAL CHARACTERISTICS AND FEATURES

EPOCAST 36-P will cure at temperatures above 13°C. With temperatures below 13°C the hardening process will take substantially longer. External heat can be used to shorten hardening time. In the course of the exothermic the chemical reaction will not cause any shrinkage to the end product. It will form a solid chock and is resistant to oil, gas, fresh and sea water, alkalines, acids etc.

UNIT SIZES

8000 cc (8,0 ltr. incl. hardener)

INSTRUCTION PROCEDURE

Before starting work with EPOCAST 36-P make sure that sufficient EPOCAST 36-P and hardener is available (calculated volume with a surplus of 10%). Condition the resin up to a temperature of at least 20 - max. 30°C to ensure suitable mixing viscosity.

INSTALLATION PROCEDURE

Add hardener completely into the preheated resin and power mix with a contra rotating electric mixing tool (available from ITW Performance Polymers GmbH) until the colour of the resin-hardener mixture changes from dark to a light brown. The material has now a soft appearance and can be applied with the help of a putty knife to the specified thickness (plus 10% margin).

Due to its excellent thixotropic behaviour EPOCAST 36-P can be applied to vertical surfaces in a thickness up to 40 mm without slumping or flowing downwards.

The cure time depends on the ambient temperature and is as follows:

- starting to cure after approx. 4 – 6 hours
- ready to take loading after approx. 72 hours
- fully cured after approx. 7 days

Clean tools and putty knife immediately after use with hot water and soap.

APPLICATION INSTRUCTION

*see also EPOCAST 36-P TANK INSTALLATION HANDBOOK

Surface Preparations

Prior to application the surface must be cleaned from rust, oil, water, mill scale or rolling scale.

Working temperature

The minimum ambient temperature in the working area must be at least 13°C, otherwise the hardening process nearly will stop. In this case external heat becomes necessary to shorten the cure period.

Special Information

Upon delivery EPOCAST 36-P does not contain any dangerous solvents and is therefore neither explosive nor combustible. Consequently there is no need to exhaust solvent fumes not even in closed rooms, but for the convenience of the worker narrow rooms should have enough ventilation.

Avoid skin contact with the hardener or the resin-hardener mixture.

For installations like LPG/LNG tank installation or to install other plants in not cured epoxy compound mixture, means to set down the plant into position in max. One hour. Unnecessary material can be removed from surface.

Protective Measures

EPOCAST 36-P hardener is slightly corrosive, therefore wear suitable protective clothing and impermeable gloves when working with EPOCAST.

In the case of skin or eye contact wash with plenty of water. In case of eye contact or after swallowing seek immediately medical advice. *See also actual safety data sheets for resin and hardener.

Take off immediately all contaminated clothing.

PROPERTIES at room ambient temperature of approx. 20°C		DIMENSION/UNIT VALUE		
Compressive strength*		N/mm ²	≥ 86	
Barcol hardness:			≥ 30	
Elastic moduls		N/mm ²	6283	
Thermal conductivity		W/mK	0,684	
Specific heat capacity		J/kgK	1,354	
At temperature of		-110°C	-165°C	-195°C
Compressive strength	N/mm ²	197		215
Compressive strain of rupture	%			3,11
Elastic moduls	N/mm ²	7120		9985
Shear strength	N/mm ²	12,1	1,8	
Shelf-life	Months	18		

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.

· Approved accordance ITW Performance Polymers Quality System. Unless otherwise stated

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