

## TECHNICAL BULLETIN

### EPOCAST EPM

#### General Description

**EPOCAST EPM** is a two component mineral powder filled epoxy resin which is absolutely corrosion-resistant.

#### Typical Applications

**EPOCAST EPM** conforms to any shape and cures quickly to form a tough, abrasion and chemical resistant coating for long lasting and cost effective repairs.

**EPOCAST EPM** has been approved in many different applications in the chemical, petrochemical, mining and marine industries.

#### Surface Preparations

Prior to application on any or worn out metal surface, the surface must be cleaned from rust, oil and water. Grind or sandblast if necessary, but leave the surface rough, not polished.

#### Mixing

Mix the black resin paste with the gray hardener paste in a ratio of 1 : 1 by weight, using a stout mixing stick or small trowel on a metal sheet.

Continue mixing until a homogeneous dark grey colour is obtained and apply the mixed **EPOCAST EPM** with a trowel onto the worn out area. Then, smooth the surface by using small amounts of soap water.

To shorten the cure period heat may be applied, but only after **EPOCAST EPM** has gelled.

**EPOCAST EPM** extends the life of new and worn out equipment and has been used in many different applications such as:

- Repairs of broken motor blocks and other machinery parts
- Repairs of fractures or cracks on castings
- Repairs of leakages on tubes and containers
- Repairs of cavitation damages
- Mending of valves, pumps, frames
- Filling of funnels
- Filling of gaps in machine frames
- Smoothing and stuffing up welding seams and many others.

#### Technical Data:

Specific Gravity	g/cm <sup>3</sup>	2,0
Colour		grey
Mixing ratio		1:1
Compressive Strength DIN 53454	N/mm <sup>2</sup>	59,0
Tensile Strength DIN EN ISI 527	N/mm <sup>2</sup>	34,0
Tensile Shear Strength DIN EN 1465 sandblasted part thickness :1,6 mm after 24h at room temperature approx. 23°C	N/mm <sup>2</sup>	15,0
E-Modul DIN EN ISO 527	N/mm <sup>2</sup>	5900
Tear Stretch DIN EN ISI 527	%	0,6
Temperature Resistance	°C	- 50,0 to + 180,0
Shrinkage	Vol.%	0,5 –1,0
Chemical Resistance		very good
Pot life for 100g mixture (min) bei ca. 23°C	min	40
Pot life for 1 kg mixture (min) bei ca. 23°C	min	30
Cure Time (at approx. 23°C)	hours	12,0
Theoretical consumption for an area of 1 m <sup>2</sup> at 4 mm Layer thickness	kg	8
Shelf life after delivery for not opened original units at room temperature (approx. 23°C)	months	12

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.