



## IPATOP Reparaturbeton

### Dry Polymer Modified Repair Mortar for concrete structures

#### Product Specifications:

IPATOP REPARATURBETON is a premixed, two component, cementitious, with Ipatop Liquid AMF polymer modified high strength, versatile repair mortar. IPATOP Reparaturbeton contains a blend of graded silica sands to produce a repair mortar that can be used in a wide range of consistencies.

#### Areas of Application:

To fill voids and cavities in concrete. Typical uses include horizontal patching of bridge decks, parking garages and machine pads in industrial applications where impact damage and spalling have caused deep wear.

#### Action (Properties):

IPATOP REPARATURBETON was formulated so as to be easily applied, even overhead, and that its characteristics correspond to a large extent to any concrete in place being treated.

#### IPATOP REPARATURBETON

- will not disintegrate
- will not attack reinforcement bars
- is non-polluting
- is non-flammable
- Excellent freeze-thaw resistance is resistant against oil
- will resist wear off
- will let water vapors permeate

#### Technical Data:

<b>Material:</b>		
<b>Powder</b>	mineral-based binder and with with Ipatop Liquid AMF polymer modified	
<b>Mixing Liquid</b>	Ipatop Liquid AMF (mixed 1:1 with water) using 0,15kg/kg of powder	
<b>Appearance:</b>	cement grey	
<b>Liquid</b>	milky white	
<b>Processing Time</b>		
<b>(pot life):</b>	approx. 15 - 30 minutes, depending upon substrate and atmospheric conditions	
<b>Processing</b>		
<b>Temperature (temperature of substrate) not below +5°C</b>		
<b>Bulk Density of Fresh Mortar:</b>	ca. 1,50 kg/ dm <sup>3</sup>	
<b>Consumption:</b>	approx. 2,2 kg per square meter and mm of layer thickness	
<b>Storage:</b>	dry	
<b>Shelf Life:</b>	6 months within original packing	
<b>Supplied In:</b>	plastic-lined bag of 25 kg	
<b>MECHANICAL AND PHYSICAL PROPERTIES OF THE END PRODUCT</b>		
(after 28 days under standardized climatic conditions)		
<b>Compressive Strength:</b>		
<b>2 Days</b>	<b>7 Days</b>	<b>28 Days</b>
18,4 N/mm <sup>2</sup>	31,9 N/mm <sup>2</sup>	45,6 N/mm <sup>2</sup>
<b>Flexural Strength:</b>		
<b>2 Days</b>	<b>7 Days</b>	<b>28 Days</b>
2,8 N/mm <sup>2</sup>	6,4 N/mm <sup>2</sup>	10,1 N/mm <sup>2</sup>
<b>Pull of strength</b>	> 2,0 N/mm <sup>2</sup>	
<b>Pull of strength after Freeze/thaw testing</b>	> 1,5 N/mm <sup>2</sup>	
<b>Shrinkage Factor:</b>	crack-free	

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## Processing Notes:

Remove any substances material that might hinder adhesion, for instance by sandblasting.

## Mixing Instructions:

### Bonding Agent:

Prepare the substrate applying a priming layer of of IPATOP REPARATURBETON, thoroughly mixed with IPATOP Liquid AMF (mixed 1 : 1 with water) in accordance with instructions (as printed on the bag) in slurry consistency;

### Mortar

Thoroughly mix 25 kg (one bag) of grey powder and 3,5-4kg of of IPATOP Liquid AMF (mixed 1 : 1 with water) to form a homogeneous, troweling compound, using a stirrer having with low speed. apply the coarse compound mortar fresh in fresh. Owing to reduced pot life, marking up smaller quantities is to be recommended at high temperatures. IPATOP REPARATURBETON should invariably be applied, wet in wet, to a priming layer of of IPATOP REPARATURBETON in slurry consistency. If deeper (in excess of 20 mm) broken out sections are to be repaired, apply several layers of IPATOP REPARATURBETON so as to prevent any individual layer form exceeding 20 mm. Use a trowel or a smoothing knife to apply the mortar.

## Please Note:

- Do not smooth the surface, leave it rough.
- If possible, protect any surface treated against insolation and wind.
- Whenever concrete is repaired, we recommend providing the entire concrete surface or at least any reprofiled spots with a large-surface of IPATOP Betonspachtel knifing filler.
- Protect glass surfaces and anodized parts!
- Use only water to clean equipment and stirrer!

## Safety Recommendations:

Because of its alkalinity, IPATOP REPARATURBETON is corrosive! Observe all protective measures prescribed by any competent social insurance association against occupational hazards in the chemical industry. Use gloves and protective goggles. Avoid any contact between the product and your skin. For improved protection, apply cream to your hands. Use a good deal of water to wash away any splashes of material reaching your skin or an eye; afterwards, immediately consult a physician.

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