



IPATOP Reparaturbeton Rb1k

Dry Polymer Modified Repair Mortar for concrete structures

Product Specifications:

IPATOP RB 1K is a premixed, single component, cementitious, dry polymer modified high strength, versatile repair mortar. IPATOP RB1k 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 RB 1K 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 RB 1K

- 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

Processing Notes:

Remove any substances material that might hinder adhesion, for instance by sandblasting. Prepare the substrate applying a priming layer of IPATOP RB1k in slurry consistency; next, apply the coarse compound mortar fresh in fresh IPATOP RB 1K, an easily processed repair mortar, is thoroughly mixed with water in accordance with instructions (as printed on the bag).

Knifing Filler/Bonding Agent:

Thoroughly mix 25 kg (one bag) of grey powder and 3 kg of Water to form a homogeneous, troweling compound, using a stirrer having as low a speed as possible.

Owing to reduced pot life, marking up smaller quantities is to be recommended at high temperatures. IPATOP RB 1K should invariably be applied, wet in wet, to a priming layer of IPATOP RB1k in slurry consistency. If deeper (in excess of 20 mm) broken out sections are to be repaired, apply several layers of IPATOP RB 1K so as to prevent any individual layer from exceeding 20 mm.

Use a trowel or a smoothing knife to apply the mortar.

Technical Data

Material:	mineral-based binder and dry polymer modified	
Appearance:	cement grey	
Processing Time		
(pot life):	approx. 15 - 40 minutes, depending upon substrate and atmospheric conditions	
Processing		
Temperature (temperature of substrate) not below +5°C		
Bulk Density of Fresh Mortar:	ca. 1,50 kg/ dm ³	
Consumption:	approx. 2,2 kg per square meter and mm of layer thickness	
Storage:	dry	
Shelf Life:	6 months within original packing	
Supplied In:	plastic-lined bag of 25 kg	
MECHANICAL AND PHYSICAL PROPERTIES OF THE END PRODUCT		
(after 28 days under standardized climatic conditions)		
Compressive Strength:		
2 Days	7 Days	28 Days
18,4 N/mm ²	31,9 N/mm ²	45,6 N/mm ²
Flexural Strength:		
2 Days	7 Days	28 Days
2,8 N/mm ²	6,4 N/mm ²	10,1 N/mm ²
Pull of strength	> 2,0 N/mm ²	
Pull of strength after Freeze/thaw testing	> 1,5 N/mm ²	
Shrinkage Factor:	crack-free	

Makeup Instructions:

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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 SM knifing filler.
- Protect glass surfaces and anodized parts!
- Use only water to clean equipment and stirrer!

Safety Recommendations:

Because of its alkalinity, IPATOP RB 1K 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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