

## IPA VM6 Injektionsfeinstzement

### Product description

IPA VM 6 is a factory-mixed, cement-bound injection material based on ultra-fine cements according to DIN 18 557.

Strengthening of masonry and concrete Filling of cavities Crack injection from 0.2 mm crack width  
IPA VM 6 has good flowability, is very finely dispersed, adheres well to mineral substrates, is non-corrosive to structural steel and is impermeable to water.

### Technical data

Material base	Cement according to DIN EN 196		
Colour	grey		
Bulk density	approx. 0.70 kg/dm <sup>3</sup>		
Mixing liquid	Water		
Mixing ratio	approx. 0.50 l/kg dry mortar		
Fresh mortar properties			
Bulk density	approx. 1.67 kg/dm <sup>3</sup>		
Flow properties	> 30 cm		
Start of setting	approx. 6 hours (VICAT)		
End of setting	approx. 9 hours (VICAT)		
Working time	approx. 1 hour (depending on temperature)		
Material consumption	approx. 1.12 kg IPA VM 6 per litre mixture		
Delivery form	20 kg paper bag with poly liner		
Storage stability	6 months with proper storage		
Storage	Storage is in the unopened original packaging, in dry rooms and in accordance with WHG § 19. The storage temperature should not fall below +5°C and not exceed +30°C.		
Strengths in N/mm <sup>2</sup> after	2 days	7 days	28 days
Compressive strength	17	47	51
Flexural strength	4,2	4,3	5,2
adhesive tensile strength :	> 1.5 N/ mm <sup>2</sup> (on concrete, after 28 days)		

### Processing instructions

#### Preparation of the injection

Drill cracks laterally at an angle of 45° alternately or straight and blow out drilling dust.

Drill hole spacing 15 -20 cm.

#### Crack flank preparation

The crack flanks must be firm and free of adhesion-reducing substances. Blow out or flush out cracks (oil-free).

Precompress crack flanks with water (wait at least 30 minutes afterwards). Remove excess water, e.g. by blowing out.

Then seal the cracks, e.g. with IPANEX Stopfmörtel or IPA Unimörtel Rapid,

#### Crack injection

Installing the packers.

Mixing of the injection material: IPA VM 6 (25kg) is mixed intensively and homogeneously with 12.5 to 15 l clean water for at least 4 minutes with a stirrer rotating at least 1500 rpm.

Then the non-return valve is mounted on the lowest packer and crack injection is started with a piston or diaphragm pump (preferably using the low-pressure method). Injection is continued into this packer until there is a visible discharge of material at the next higher packer. Then the non-return valve is mounted at this packer and thus the injection of the cracks is continued continuously. After the injection material has hardened, the packers are removed and the remaining holes are sealed with a crack-free hardening repair mortar, e.g. IPA repair concrete.

During application and 72 hours afterwards, the substrate and material temperature must not fall below + 5°C. The rules for cement-bound building materials apply.

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### Special notes

IPA VM 6 can be used for pre-injection (cavity filling) in horizontal barriers.

IPA VM 6 is a rigid hardening injection material and therefore cannot be used for the injection of movement cracks and expansion joints.

### Cleaning and disposal

The tools can be cleaned with clean water.

Material residues, delivery containers or mixing vessels must be disposed of in an orderly manner.

Disposal code in hardened state: LAGA-No. 314 09  
EWC-No. 17 01 01

### Occupational safety

Before starting work, it is recommended to apply grease-free skin protection cream.

wear protective clothing, goggles and gloves.

Avoid strong dust formation!

Do not smoke, eat or drink during processing!

In case of skin contact and splashes in the eyes, rinse immediately with clean water for at least 15 minutes. It is recommended to keep an eye rinsing bottle with the sterile Isogutt solution (available in pharmacies) in order to rinse eyes thoroughly. Then consult an ophthalmologist immediately.

Please observe the safety data sheets and the regulations of the professional associations on handling cementitious substances.

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