IPA Bauchemische Produkte GmbH
A Stable Solution

IPACRYL GEL (concentrate)

Injection Resin like a Gel with adjustable reaction time for waterstopping

Product description

- IPACRYL GEL is extremely low viscose, modified 2 component acrylic resins, which hardens by use of a catalyst system to a gel and thereby can bind water up to 180 % of its own weight.
- IPACRYL GEL was developed in particular against heavy water infiltrations and seals safely by low use of material, work and expense within seconds with a 2 component Injection machine . With IPACRYL GEL (accelerated to reaction time of 30sec) water under pressure can be stopped, however a permanent sealing has to be done by a consecutive injection with IPACRYL Gel normal reaction time (8min) type!!
- IPACRYL GEL setting times can individually be adjusted by adding catalyst down to 30 seconds whereby the strength of the water-pressure is determinative.
- shows little shrinkage and swells back without cracking to its original volume when water is added.
- remains also in hardened condition completely elastic and is therefore able to carry completely strong movements of the building structure
- is in cured condition absolutely resistant against ageing and bacteria, physiologically harmless
- is officially tested and permitted for drinking water applications can be injected directly into the ground and water-carrying ground (slope water) and therefore achieve an enormous release of water pressure.
- further on are resistant against inorganic acids, or leaches and aggressive organic chemicals
- based on its special corrosion protector does not attack metals, concrete, bitumen or plastic

TECHNICAL DATA

Composition	modified 2-component acrylic-resin
appearance	component I :red liquid component II: will be received by mixing 1kg catalyst (white powder) with 24,5L of water
viscosity (20°C)	15,1 mPa´s
density (20°C)	1,05 g/cm³
pH value	9 - 10
tensile strain	ca. 15%
absorptive capacity	ca. 180 %
mixing ratio of the components	1,05 weight part component I, 1 weight part component II (=´`1:1 vol.-parts)
temperature stability	-15°C to + 90°C
application temperature	0°C to 80°C
storage	store catalyst dry
storage ability	9 months in airtight, blue closed containers, protect component I of direct insolation
Setting time	at delivery 8min can be accelerated to 30sec

DIRECTIONS FOR USE AND APPLICATION

IPACRYL GEL at delivery formulation (1kg catalyst on 24,5kg of water to make comp. 2) with 8min potlife at 20°C must not necessarily be injectected with 2 comp. injection machine. More accelerated formulations can o n l y be applied with the IPA-2-component-injection-machine.

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Reaction time of IPACRYL GEL depending on temperature and quantity of accelerator

Application Temp °C	Potlife	Catalyst in Comp. II for 24,5kg of water	Accelerator in Comp. I on 25kg
5	15min	1kg	0
10	12min	1kg	0
15	10min	1kg	0
20	8min 20min 2min 80sec 40sec	1kg 0,5kg 1,5kg 3kg 3kg	0 0 0 0,5kg 1kg
25	6min	1kg	0

The admix of catalysator in kg corresponds to the total quantity (25,5kg) Comp. II.
Mixing and preparation of IPACRYL GEL ready for injection with a two component machine:
1.) Component II is prepared by mixing 24,5kg water with 1kg catalyst (white powder) . After mixing the component II is ready to inject for four days..
At formulations with 8min setting time the injections are made with 1- or 2-component machines.
The injection will be done with IPA-injection - valves or other packers whereby at injection pressures of 200 bar and more each hole or capillary will be closed absolutely waterproof. Here the IPACRYL GEL because of its extremely low viscosity penetrates also into the thinnest capillary structure.

The admix of accelerator
(transparent liquid) in weight % refers to the factory formulation of the whole injection solution that means comp.I plus comp.II. The acceleator solution has to be the admixed into component I (black can with red letters) as the density of the liquid accelerator is by about 1 kg/m³ when producing accelerated solutions weight can be put equal to volume.
Cleaning of tool and machines is done with a lot of water.

ATTENTION!

- Avoid contact of both components with skin or cloth.
- In no case use empty cans again.
- Component I protect from influence of light!
- Component II ready mixed for use max. 4 days storable.
- All stated characteristics of the product refer to the material in hardened condition, unless this is particularly. mentioned different

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