

JEKTIPAL

Injection Liquid Dampproofing Courses Protecting Against Capillary Moisture

Product Specifications:

JEKTIPAL is a low-viscosity watery liquid based on stabilised alkali silicate/silicone compounds and characterized by efficient water-repellent characteristics.

Areas of Application:

Used to construct horizontal barrier courses and to seal large surfaces within masonry and concrete structures against capillary moisture entering from side or from below.

Action (Properties):

Once injected, JEKTIPAL will be converted into calcium silicate by any free lime available within the masonry or concrete structure so as to form a permanent, impermeable horizontal layer or large-surface seal by blocking the capillary system in place.

Test Certificates:

Properties and Application of JEKTIPAL.
Report dated 05.31.1983, Dr. Günther Böttcher
Building Materials Institute.

Processing Notes:

Impregnating:

Drill 30 mm dia. boreholes inclined at 30°, staggered or along a straight line and spaced no more than 12 cm from each other (see system diagram). Blow out fines and subsequently use JEKTIPAL until all capillaries are thoroughly impregnated. Waiting times between individual impregnating jobs should not exceed 8 hours.

Next close (fill) the boreholes using IPATOP SM or IPA injection grout.

If wall thickness is superior to 60 cm, impregnation will have to be performed from both sides of the wall.

Injection:

Drill dia. 13 mm or 22 mm boreholes inclined approx. 25°, staggered or along a straight line and spaced no more than 12 cm from each other. Depth of borehole = wall thickness less 5 cm (see system diagram). Blow out fines and tension packers or injection valves. Inject JEKTIPAL.

Keep injecting until all capillaries are completely saturated, introducing JEKTIPAL for a prolonged period of time via all packers/injection valves. (A type Polyp IPA injection battery

supplying 10 packing valves simultaneously can be used to advantage.)

In conclusion, remove packers/injection valves and close (fill) drillholes using IPATOP SM or IPA INJECTION GROUT.

Special Remarks:

If compact structures are to be obtained, voids cavities between walls will have to be preinjected (prefilled) using IPA injection grout or a lime and/or cement suspension with IPA PM powder.

As a complementary measure, applying a coat of refurbishing plaster (IPA E 64) is to be recommended (see Data Sheet).

JEKTIPAL

- will not attack reinforcement bars
- is non-flammable
- will not disintegrate

The process is unsuitable if the masonry to be treated is subject to pressurized water.

Protect glass surfaces and anodized parts!

Use water to clean equipment and injection machinery.

Technical Data:

Material:	hydrophobed low-viscosity alkali silicates/silicones
Viscosity:	watery
Appearance:	red liquid
Density:	1,09 kg/ltr.
pH Value:	12,5 (highly alkaline)
Consumption:	depending upon building material absorptivity Guideline value: 1,2 - 2,2 lts. per 10 cm of wall thickness and linear meter
Storage:	under non-freezing conditions
Shelf Life:	1 year within unopened container
Supplied In:	plastic containers holding 30 lts

Safety Recommendations:

Because of its alkalinity, JEKTIPAL 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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