

HYDROPROTECTIVE INJECTION MATERIALS HYDROGUARD

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FEATURES

Hydroguard is a ready to use solution, based on the hydrophobic silicone compounds for the water-repellency and silicification by injecting.

Injection waterproofing is a way of damp-course carried out by pumping specific products through the prepared holes in the ground, adjoined to the building constructions, or in the seams and cracks of constructions.

APPLICATIONS

The main objective of Hydroguard is the creation of a horizontal waterproofing barrier, performing old buildings repairing, if lime presents in the masonry composition.

Hydroguard used if necessary to achieve a termination of the water capillary rising damp in the concrete and the masonry, through the creation of an internal hydrophobic effect and the restriction or overlapping capillary structure.

Such effect is reached through the lime interaction with a hydrophobic solution, thereby forming insoluble chemical compounds stopping capillary absorption.

Injection technology is well suited for the protection of the existing buildings and constructions from rising capillary moisture by creating a horizontal waterproofing.

The most common injuries that occur during repair of buildings is damage of walls, basements and structural elements, which contact with the ground, by reason of moisture penetration.

The water in wet brick walls rises through the fine pores (capillaries) and cracks in buildings structural elements.

As a result of the horizontal waterproofing, water rising stops.

INJECTION WATERPROOFING IS EFFECTIVE IN THE NEXT CASES:

- Waterproofing of brick-made and concrete foundations, as well as the implementation of internal insulation to avoid the water capillary rising damp
- Insulation of walls, ceiling and floor in grounded constructions
- Concrete bearing walls strengthening
- Strengthening of the old dilapidated foundations
- Isolation of the construction joints and voids in reinforced concrete constructions
- Injection force elements during overhaul
- The bearing capacity restoration of concrete buildings, dilapidated foundations and underground premises
- Filling of the cracks, gaps and capillaries in order to eliminate the possibility of the moisture penetration in brick, concrete or stone constructions
- Repairing and waterproofing of expansion joints

INJECTION METHODS:

1. Pressure injection method. Pressure injection is recommended if the treated masonry is substantially or completely saturated with water. When applying the hydrophobic agent under pressure, the materials impregnation degree is up to 95%. When injected under pressure, the constructions processing time is significantly saved.

2. Injection without pressure. Water-repellent composition is supplied by gravity, without pressure. For this, 40° inclined to the surface drilled apertures are required.

CONSUMPTION

Not less than 15 kg/m² of the wall cross-sectional area.

PROPERTIES

The horizontal waterproof barrier with Hydroguard can be used only in the absence of a water load, i.e. where there is no water outlet.



Production plants



Trading companies



Representatives



More details



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SILICONE WATER-REPELLENT LIQUID GKZH 136-157M

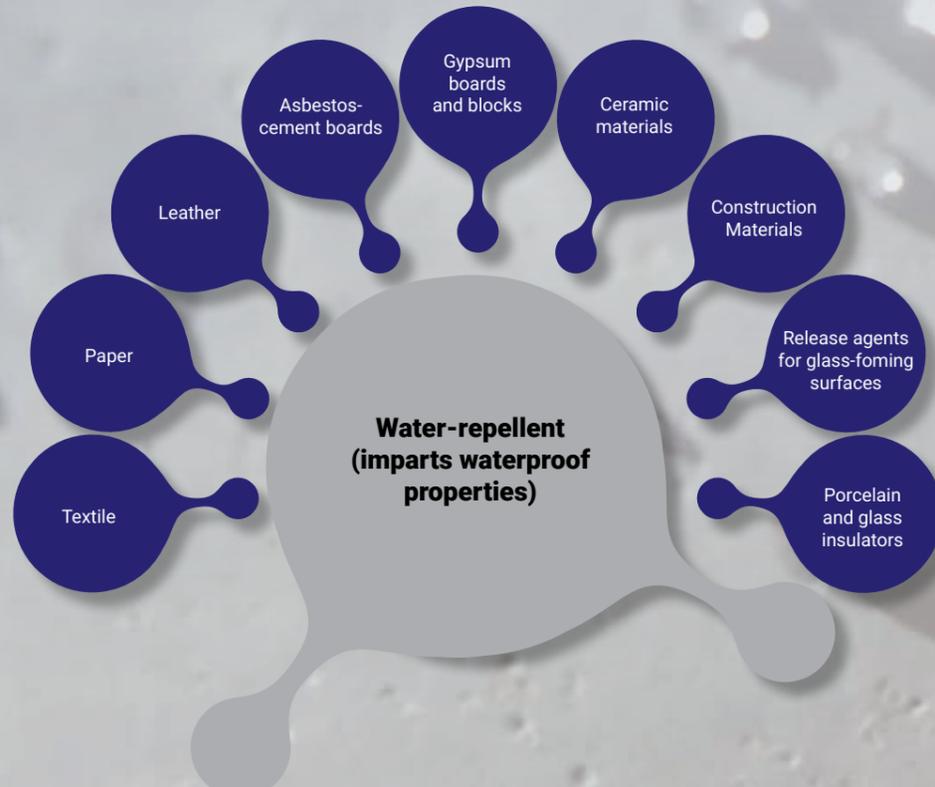
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Water-repellent agent for surface and volume treatment of the porous mineral materials. Liquid GKZH 136-157M is low viscosity colorless or pale yellow oligomethylhydridesiloxane polymer as oil. It dissolves in aromatic and chlorinated hydrocarbons, easily gelled by the action of amines, amino alcohols, strong acids and alkalis. Insoluble in water and lower alcohols.

APPLICATIONS



Advantages

- Provides natural ventilation of the buildings
- Preserves the appearance of the material
- Prevents the contamination of the textured layer
- Increases the coating life-time
- Prevents the decreasing of the heat-insulating properties of the material
- Ensures sustainability to UV rays and infrared
- Provides active protection against the weather influence (freezing and thawing, wetting and drying)
- Protects against the destructive action of mosses and lichens

SILICONE WATER-REPELLENT LIQUIDS GKZH-11K; GKZH-11N

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Water solution of sodium methylsiliconate (GKZH-11N) or potassium methylsiliconate (GKZH-11K).



Advantages

- Liquid GKZH-11 is a plasticizer of II, III, IV groups and air-entraining admixture preparing the concrete solutions
- Reduces the water absorption up to 1,5 times
- Provides natural ventilation of the buildings
- Preserves the appearance of the material
- Prevents the contamination of the textured layer
- Prolongs the service life of the buildings up to 3 - 5 times
- Prevents the decreasing of the heat-insulating properties of the material
- Ensures sustainability to ultraviolet rays and infrared
- Provides increasing the frost resistance of the buildings up to the 2 - 3 times
- Provides increasing the corrosion resistance up to 1,5 - 2 times
- Protects against efflorescence occurrence
- Protects against the destructive action of mosses and lichens

APPLICATIONS AND ADVANTAGES

Construction and buildig materials

- Surface and volumetric treatment
- For the treatment of brick, marble, travertine, concrete, asbestos cement, tile, gypsum products, and the other
- Increases the lifespan of buildings and constructions
- Increases plasticity and final strength of concrete, plaster and screed
- Increases frost resistance, crack resistance and lightfastness
- Improves the overall insulating properties of buildings
- Preserves the appearance the material, its permeability
- Protects against efflorescence occurrence
- Protects against the destructive action of mosses and lichens
- Maintains its effectiveness for at least 4-5 years up to 15 years

Oil and gas extraction

- Modifier of the clay drilling agent
- Increases lubricity
- Reduces the water flow in the drilling fluid
- Reduces and stabilizes the viscosity of the drilling agent
- Increases drilling speed
- Increases the wells resource
- Reduces the water content in the crude oil