



ООО «Менделеев»

Разработка и производство реставрационных и лакокрасочных материалов

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Сайт: www.dmendeleev.com

Brickwork Hydrophobization

Materials supplier: Mendeleev Ltd.

Compositions used: Impregnation For Hydrophobization Treatment BASE – HYDROFUGE No.8.

Object address: Saint Petersburg, 20, Vasilievsky Island, Line 5.

Works executed by: Severnaya Venetsiya Ltd.

Date of operation: September, 2011.

Air temperature: +8 to +12°C.

Relative air humidity: 85 to 99%.

To make construction materials more durable and water-resisting hydrophobization compositions are used. Construction materials market offers a great number of hydrophobization compositions, silicone for the most part. Silicone products manufacturers, however, do not recommend to use their agents in high humidity and precipitation conditions. There is an alternative today: A hydrophobization agent having good absorptivity and permeating deeply into the surface due to nonpolar solvents. Impregnation For Hydrophobization Treatment BASE – HYDROFUGE No.8 is one of these.

Pic.1 – Impregnation For Hydrophobization Treatment BASE – HYDROFUGE No.8 at the object.

Treating both dry and wet surface with Impregnation For Hydrophobization Treatment BASE – HYDROFUGE No.8.

Pic.2 – Applying the hydrophobization agent onto a brickwork.

The agent can be applied onto the surface with a sprayer, a roller or a brush. In this case Impregnation For Hydrophobization Treatment BASE – HYDROFUGE No.8 was applied with a brush onto a dry wall.

Pic.3 – Treating the brickwork with Impregnation For Hydrophobization Treatment BASE – HYDROFUGE No.8.

Pay due attention to the cracks on the material, brickwork joints and structure elements junctions. It should be remembered that repeated treatment guarantees optimal hydrophobization.

Pic.4 – Impregnation For Hydrophobization Treatment BASE – HYDROFUGE No.8 without the “wet stone” effect.

After drying of Impregnation For Hydrophobization Treatment BASE – HYDROFUGE No.8 there is almost no color intensiveness enhancement.

Pic.5 – Brickwork hydrophobic properties after preliminary treatment with hydrophobization agent.

Hydrophobic effect comes into force directly after composition drying out. Spray water onto the protected and the unprotected surface of the brickwork. In Pic.5 (left) the brickwork absorption is shown.

Pic.6 – Brick wall before and after protective agent application.

After treatment with hydrophobization agent, the surface does not absorb moisture, yet vapor and gas permeability are still there. These results are confirmed by the research conducted by the experts of construction materials diagnosis department at OJSC Research and Development Establishment Spetsproektrestavratsia.

Pic.7 – Hydrophobization, strengthening and antiseptic treatment of the brickwork with BASE – HYDROFUGE No.8.

Familiarize with the Conclusion on water absorption characteristics and hydrophobic effect stability of BASE – HYDROFUGE No.8 results learn more.



Pic.8 – “Like water off a duck’s back”

Water damages most of construction materials. When it freezes it expands, creating redundant pressure. This pressure, in its turn, leads to microcracks formation. The specialists of the restoration company Severnaya Venetsiya Ltd. chose BASE-HYDROFUGE No.8 by Dimet®. Severnaya Venetsiya Company has been working on cultural heritage objects restoration since 2006.

Pic.9 – The building facade treated with Impregnation For Hydrophobization Treatment BASE – HYDROFUGE No.8.

The capillary-porous brick structure is protected with BASE – HYDROFUGE No.8. Moisture will not permeate the material anymore. The brickwork can “breathe” and stay dry for a long time.

- 933 k
- neomid stone
- remmers funcosil snl
- aquasil
- aquaeko
- atakamast
- baisilon
- hydrolast
- hydroteks-f
- hydrophobizator gambit
- silicone based hydrophobizator
- Hydrophobization composition
- Hydroschit-super
- gkzh-11
- gsk-1
- kristallizol
- monolit-hydro
- neogard-2
- penta-811
- industrial chemistry
- runit
- silar
- silicon grunt-hydrophobizator
- siloksil
- tiprom
- color intensifier with hydrophobization effect by akemi