

## HydrophobNeo-S-concentrate

Super Strong Coating

HydrophobNeo-S penetrating water repellent composition is used to protect surfaces of building constructions made of:

- Concrete
- Aerated Concrete
- Concrete Brick
- Natural Stone
- Clay Brick
- Building Stone
- Paving Tile

### Description

HydrophobNeo-S-concentrate is a concentrated water repellent agent designed for dilution with isopropanol on the job site. **Recommended to professional users.** This concentrated water repellent agent mixes easily with isopropanol to produce a penetrating HydrophobNeo-S composition ideal for application to dense or porous surfaces of silicate building materials.

HydrophobNeo-S water repellent composition is designed to impart water repellent and frost resisting properties to building materials and protect from moisture saturation of building constructions made of concrete, foamed and gas concrete, concrete and clay brick, natural and building stone, plastered surfaces.

**Composition:** Polyorganosiloxane enhanced with a functional additive. Produced in accordance with the Technical Regulations 2229-001-73350653-2006.

### Uses

- ✓ Effective protection of fronts from aggressive weather impact;
- ✓ Waterproofing of walls and concrete floors in basement, damp and other rooms;
- ✓ Reliable protection of the objects of country house building from the impact of atmospheric precipitation;
- ✓ Covering slate and tiled roofing, concrete parking lots, driveways, walkways, parapets and footpaths;
- ✓ Use in restoration work;
- ✓ Effective hydrophobization of surfaces of articles and constructions made of natural stones;
- ✓ Preservation of the objects of construction in progress for autumn and winter period.

### Packaging

28.2 Ounce (0,80 kilogram) Containers

### Features and Benefits

Surfaces treated with HydrophobNeo-S have water-repellent and frost resisting properties. They become resistant to atmospheric precipitation and groundwater. The "HydrophobNeo – S" composition can be applied to wet surfaces.

HydrophobNeo-S water repellent agent does not form a film – it penetrates the surface to form a water repellent layer within the material to reduce moisture penetration. The product keeps the gas permeability of treated surfaces: material breathes. The HydrophobNeo-S composition improves thermal insulating properties of building materials. The HydrophobNeo – S composition has no colour; does not change the pattern and colour of treated surfaces. It is safe for environment. The HydrophobNeo – S composition is frost resisting: it can be applied at temperature down to minus 10°C (+14°F). HydrophobNeo – S water repellent agent may be applied both to dry and to damp surfaces of building constructions. When properly applied to wet surfaces the HydrophobNeo-S efficiency almost does not change.

When used outdoors treated surfaces keep water repellent effect for about 10 years. Durability of the coating is approximate and may vary depending on surface porosity, surface texture, concrete condition, climatic conditions, etc.\*

\*When applied to surfaces with pre-existing defects (chips, cracks, scratches, etc), when applied to wet surfaces, when applied to horizontal surfaces, when applied without following the application manual the service life of the coating is reduced.

### Consumption

0,211 Gallon (0,80 liters) of concentrate / Coverage area: 150 to 550 Sq. Ft. (14 to 51 sq. meters), depends on surface porosity. Consumption is approximate and may vary depending on surface porosity, surface texture, concrete condition, climatic conditions, etc. Always apply to a test area first to determine actual consumption before general application.

### Technical Data & Physical Properties\*

	Property	Test Data
1.	Appearance, odour	Low viscous transparent colourless liquid

		with alcohol odour
2.	Density at 20 °C	6.80 - 7.01 lb/gal (0,815 - 0,840 g/cm <sup>3</sup> )
3.	Water absorption of concrete brick samples being submerged in water for 24 hours	≤2%
4.	Penetration depth	1/4 In. (3 -6 millimeters)
5.	Consumption	110 - 410 ft <sup>2</sup> /gal (2,8 - 10 m <sup>2</sup> /L)
6.	pH	6 - 8

\* Shown for diluted HydrophobNeo-S-concentrate in accordance with the TR 2229-001-73350653-2006

### Directions for Use

The HydrophobNeo-S-concentrate water repellent agent is supplied in concentrated form and must be mixed with isopropanol prior to application. Mixing containers must be clean, dry and free of any contaminants. Recommended mixing concentrations are as follows: 1 gallon of isopropanol to 0,211 gallon of concentrate (one packaging). Mix lightly to produce a uniform consistency.

**NOTE: Be careful! Isopropanol is a highly flammable liquid.**

Once mixed with isopropanol the HydrophobNeo-S-concentrate product is ready for use within 2 months.

#### Application:

Air temperatures should be a minimum of 14°F and a maximum of 95° F during the application. Do not apply to frozen or frost covered surfaces. Do not apply to surfaces when it is raining or snowing. Make all necessary repairs, including defects, which allow water to enter the construction such as: structural cracks, chips, scratches, mortar joints, etc.

Application must be to clean, dry to slightly damp surfaces. Remove dust, dirt, oils, efflorescence, wax, coatings or other foreign matter that might block or interfere with product penetration. HydrophobNeo - S water repellent agent may be applied both to dry and to damp surfaces of building constructions. When properly applied to wet surfaces the HydrophobNeo-S efficiency almost does not change. Yet best performance is achieved on a clean, thoroughly dried and absorbent surface.

Always perform a **test application** to a small area of surface for proper penetration on each type of surface before starting full-scale application to determine suitability and final appearance. When applied to surfaces

of nonporous bricks and stones test application is especially required.

The HydrophobNeo-S composition can be sprayed, brushed or rolled. Amply saturate the surface with HydrophobNeo-S. Use enough to completely wet the surface. Avoid puddling or ponding. Do not let the product dry on the surface. Roll or brush out puddles. Remove excess of the composition with a dry cloth or a sponge. Surfaces with defects (chips, cracks, scratches, etc.) should be treated thoroughly. Small articles can be treated with the product by submerging in the HydrophobNeo water repellent composition for several minutes (penetration depth depends on exposure time).

Drying time: two to six hours, depending on temperature and humidity. Optimum water repellency is developed within 24 hours. Protect surfaces from rainfall for 24 hours following treatment.

On highly permeable surfaces, additional coats may be necessary. Apply a first application, allow the composition to penetrate within the surface of building material, and then apply a **second application**. Avoid puddling or ponding.

**A third application** may be applied to the surface a few days later, if it is necessary. "Wet stone" effect may occur as a result of this additional application.

When applied to **polished granite and marble surfaces**, only a single application is necessary. Apply the single application, wait for 15 - 20 minutes, and then remove excess of the composition with a dry cloth and wipe the surface thoroughly. When applied to polished surfaces with engraved images, slight darkening of unpainted images may occur. Optimum water repellency is developed within 24 hours.

**NOTE: The HydrophobNeo composition should not be used for the treatment of articles made of any polymeric materials (plastics) or of any metals as it is ineffective. Treated surfaces may be painted with an oil-based (not a water-based!) paint. Testing is always necessary to ensure adhesion and compatibility. Prevent from being spilled or over sprayed onto glass surfaces. If being spilled onto glass surfaces remove the composition with a dry or wet cloth.**

### Precautions

Keep out of reach of children. Read label before use.

1) Diluted HydrophobNeo-S-concentrate product contains isopropanol (highly flammable liquid). Keep away from heat, hot surfaces, open flames, sparks. No smoking during use. Keep container tightly closed. Keep cool. Avoid breathing dust, mist, spray, vapors. Use only outdoors or in a well-ventilated area. Alcohol odor completely disappears in 24 hours.

2) Composition application should be held in protective glasses (chemical splash goggle) and gloves (plastic or rubber). When sprayer is used respirator is needed. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke during use.

3) After drying the coating is harmless for men and animals.

4) First aid measures: for skin contact - remove affected clothing and wash all exposed skin area with mild soap and water; for eye contact - immediately flush eyes thoroughly with water for at least 15 minutes, obtain medical attention if necessary; after inhalation - move to fresh air as quickly as possible, consult a physician if necessary; after ingestion - rinse mouth, obtain emergency medical attention.

For additional information for this product, refer to the Safety Data Sheet available at [hydrophobneo.com](http://hydrophobneo.com).

### Storage

Undiluted HydrophobNeo-S-concentrate water repellent agent can be stored under normal warehouse conditions for twelve (12) months in original, unopened containers. During the composition storage influence of increased temperatures /over +35°C (+95°F)/ and direct sunlight should be excluded. The composition does not freeze at temperatures down to minus 50°C (-58°F).

#### Responsibility and Limited Warranty

The manufacturer warrants at the time and the place of shipment the water repellent agent will be of good quality and will comply with the Technical Regulations 2229-001-73350653-2006. The product quality will be confirmed by the Quality Certificate, which is issued to each batch of the product. However, the manufacturer cannot control the use of the product by others, and therefore does not give any guarantees of results and does not assume any obligations or responsibilities in connection with the use of the product without prior research or approval. It is recommended that the products be tested to determine if suitable for specific application. Responsibility remains with the architect, engineer or contractor, as well as, owner for the design, use and proper application of the composition. Customer and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.