

# Protectosil® 20 N

## Silane based water repellent for mineral-based building materials

### Technical Data

Properties and test methods	Value	Unit	Method
Appearance	free-flowing, colorless liquid	-	-
Flash point	< 21	°C	DIN 57755
Solvent	alcoholic	-	-
Viscosity	1.25	mPa.s	DIN 53015
Odor	alcoholic	-	-
Density (20 °C)	0.81	g/cm <sup>3</sup>	DIN 51757
Boiling point	79	°C	-

### Registration

#### Protectosil® 20 N

EINECS/ELINCS (EU):	Yes
AICS (Australia):	Yes
DSL/NDSL (Canada):	Yes
PICCS (Philippines):	Yes
TSCA (USA):	Yes
IECSC (P.R. China):	Yes
ENCS (Japan):	Yes
ECL (South Korea):	Yes

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### Safety and Handling

Before considering the use of Dynasylan® and Protectosil® products please read its Material Safety Data sheet (MSDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Material Safety Data Sheet is available after registration on our website [www.dynasylan.com](http://www.dynasylan.com) or upon request from your local representative, customer service or from Evonik Industries AG, Product Safety Department, E-MAIL [sds-im@evonik.com](mailto:sds-im@evonik.com).

### Packaging and Storage

Provided that moisture is excluded, **Protectosil® 20 N** has a shelf life of more than 12 months if stored in originally sealed containers.

Containers must be kept tightly sealed and protected from moisture. Storage temperatures are between -10 °C and 40 °C.

**Protectosil® 20 N** is supplied in 5 l, 25 l and 207 l drums.

## Properties and Use

### Areas of application:

For waterproofing of absorbent mineral facade construction materials such as:

- brickwork
- mineral plaster
- facades sand-lime
- brickwork ceramic tiles
- autoclaved aerated concrete

Waterproofing of facade construction materials with **Protectosil® 20 N** can contribute significantly to saving heating energy, as the reduction in water absorption also reduces the thermal conductivity of the facade. Application rates depend on how absorbent the substrate is. Experience has shown that the application rate for sand-lime brickwork is approx. 0.7 l/m<sup>2</sup> and for porous facade tile significantly more than 1 l/m<sup>2</sup> **Protectosil® 20 N**. The amount to be applied must be determined by a trial application.

### Product Characteristics

- watervaporpermeable, colorless impregnation
- not film-forming
- effective on hairline cracks up to 0.3 mm
- significant reduction in the water absorption
- very good penetration
- high alkali resistance
- suitable for waterproofing under topcoats frost resistant

## Processing

### Directions for use

The substrates to be treated should be air-dry and clean in order to ensure deep penetration of the active ingredient. During application the outside temperature and the temperature of the substrate should be within the range of 0 °C to 40 °C. The material should not be applied if there is a strong wind or if it is raining. The material must not come into contact with water either before or during use. **Protectosil® 20 N** must be applied by flow-coating to the saturation point. This is achieved by allowing it to flow without pressure against the surface to be treated. All liquid delivery devices are suitable (airless sprayguns, for example). The material must not be atomized or applied with a brush. **Protectosil® 20 N** must remain in contact with the substrate for several seconds as a liquid film. Horizontal surfaces should have a shiny, wet appearance for 3-5 seconds. Vertical surfaces should exhibit a 30-50 cm shiny curtain of liquid. All equipment and containers must be clean and dry. After use they can be cleaned with any organic solvent (methylated spirit, petrol or thinners). Non-absorbent substrates such as glass, wood, plastic and metal cannot be treated with **Protectosil® 20 N**. In the worst case, product not absorbed by the substrate may react with atmospheric moisture to form a greasy, glossy silicone resin film. Substrates such as those mentioned above should therefore be covered before the application. If they nevertheless become contaminated, the resulting film can be easily removed if cleaned immediately, using conventional cleaning agents, or alcohol (spirit of soap). Plants in the vicinity of the substrate to be treated should be protected against contact with **Protectosil® 20 N**.

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