

WACKER® BS 295

MASONRY WATER REPELLENTS

Product description

WACKER® BS 295 is a solventless silicone concentrate that is based on a mixture of silane and siloxane.

WACKER® BS 295 is dilutable with organic solvents.

Dilute solutions of WACKER® BS 295 in organic solvents serve as high-quality general-purpose water repellents for impregnating and priming mineral and highly alkaline substrates.

Special features

- good depth of penetration
- high resistance to alkalis
- tack-free drying
- effective even on damp substrates
- rapid development of water repellency

After application to the mineral substrate, WACKER® BS 295 reacts with the atmospheric moisture or pore water in the substrate, thereby generating the active ingredient while liberating alcohol. The active ingredient greatly lowers the water absorbency of the substrate, which nevertheless retains a very high degree of water vapour permeability since neither pores nor capillaries are clogged.

Application

WACKER® BS 295 is suitable for imparting water repellency to absorbent, porous, mineral construction materials, e. g.:

- brickwork
- all kinds of concrete
- aerated concrete
- sand-lime brickwork
- cement fiberboards
- mineral plasters
- mineral-based natural and artificial stone
- mineral paints

WACKER® BS 295 is also suitable as primer for exterior paints.

WACKER® BS 295 is not suitable for rendering gypsum water repellent.

Processing

Flooding, preferably not under pressure, is the best technique for applying WACKER® BS 295, which is ready to use after dilution. Apply several coats, wet on wet, until the substrate is saturated. Generally, at least two applications suffice for all substrates.

Do not leave long breaks between coats. Apply the next when the substrate has absorbed the previous one and is no longer shiny (wet-on-wet working). The substrate must not have damp spots, i. e., it should look dry. The requisite quantity of WACKER® BS 295 depends on the adsorbency of the substrate. The amount of impregnating agent required for a substrate and the effectiveness of the impregnation should be determined on site by testing a small area of the material to be treated.

Dilution

The solvents best suited for diluting WACKER® BS 295 are aliphatic hydrocarbons (e. g. White Spirit 130/175), aromatic hydrocarbons (solvent naphtha, e. g. Shellsol A) or low-odor isoparaffin hydrocarbons (e. g. Isopar H). The solvent used should have a boiling range of 140-190°C and an evaporation number of 30-90.

If the above-mentioned hydrocarbon solvents are used, WACKER® BS 295 should be diluted in a weight ratio of 1:11 to 1:15. Anhydrous alcohols, such as ethanol or 2-propanol, could also be used and are even indispensable whenever contact of the impregnating agent with solvent-sensitive materials (such as expanded polystyrene, bitumen, etc.) cannot be avoided. The alcohol must be completely anhydrous. If alcohol is used as a solvent, a dilution ratio of 1:12pbw is recommended. When impregnating slightly damp substrates, WACKER® BS 295 will give better results if diluted with hydrocarbons than with alcohol.

Stir vigorously when adding the diluent to WACKER® BS 295. Since WACKER® BS 295 reacts with humidity, prolonged contact with air must be avoided. The containers must be hermetically sealed.

Before applying WACKER® BS 295, be sure to cover

windows and other non-absorbent surfaces properly because the product cures so quickly that it will be extremely difficult, if not impossible, to remove after a few hours. Wipe off any splashes on window panes immediately, using a solvent if necessary.

For this reason, the figures quoted below are intended as a guide only:

Concrete	[l/m ²]	0.25 – 0.5
Plaster	[l/m ²]	0.5 – 1.0
Sand-lime brick	[l/m ²]	0.4 – 0.7
Brickwork	[l/m ²]	0.4 – 2.0
Aerated concrete	[l/m ²]	0.5 – 2.0
Cement fiberboard	[l/m ²]	0.1 – 0.3
Natural stone	[l/m ²]	0.05 – 3.0

Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

Product data

Typical general characteristics	Inspection Method	Value
Appearance		colorless, hazy
Silane / siloxane content		approx. 100 %
Density at 25 °C	DIN 51757	1,05 g/cm ³
Viscosity, dynamic	DIN 51562	15 - 19 mPa.s
Flash point	DIN 51755	42 °C

These figures are only intended as a guide and should not be used in preparing specifications.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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For technical, quality, or product safety questions, please contact:

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