



Diffusit[®] S

Wood preservation according to DIN 68 800

Test mark: Z-58.1-1295

Codes of range of application: lv P

Characteristics

Paste-like, water-soluble wood preservative salt based on boron compounds providing preventive protection against wood-destroying fungi and insect attack. No loss of efficacy for timbers in contact with concrete or mortar.

Diffusit[®] S does not corrode copper, iron or their alloys, and glass is not stained.

Diffusit[®] S is not a fire retardant but considerably reduces the combustibility of the wood.

Use

For the preventive preservation of structural timbers under roof not exposed to rain or leaching by water. Particularly suitable for the treatment of timber in indirect contact with stored goods whose odour and taste must not be influenced.

Physical Data

Density:	Approx. 1.4 g/cm ³ at 20 °C
Odour:	Odourless
Colour:	Orange, brown, yellow (control colour, not resistant to light) Without additional colouring matter (the timber becomes yellowish)
Flash point:	Not applicable
Freezing point:	< - 5 °C, relating to part of liquid

Application

Brushing, spray treatment in spraying tunnels, dipping in stationary plants, open tank method, vacuum pressure treatment.

Retention

Required retention (hazard class 1 + 2):

Brushing, spraying, dipping, open tank method:	at least 25 g Diffusit [®] S per m ²
Vacuum pressure treatment:	at least 1 kg Diffusit [®] S per m ³

Treating concentration:

Brushing, spraying, dipping: for dry wood ($u \leq 20\%$):	10 – 15 % Diffusit [®] S
for other timbers:	15 – 20 % Diffusit [®] S
Open tank method:	5 – 10 % Diffusit [®] S
Vacuum pressure treatment:	at least 2 % Diffusit [®] S

Dipping:

Dipping time at least 15 minutes using a 10 % solution.

Preparation of solution	Stir up paste and add it to water. The standard concentration is 10 – 20 %. Diffusit [®] S is soluble in water up to 25 %. To prepare a solution of 20 % dilute 20 kg Diffusit [®] S in 80 l water.
Pre-treatment of timber	The timber should be cut to size before treatment. Inner and outer bark must be removed completely.
Handling of treated timber	It must be ensured that timber treated with Diffusit [®] S is not exposed to moisture (e. g. rain). Surfaces cut after impregnation must be treated subsequently.
Cleaning of tools	With water immediately after use.
Labelling	Not subject to labelling according to the decree of hazardous goods.
Active ingredients	32.50 % Borax 52.50 % Boric acid
Storage	Protect from frost. To be stored in original containers only. During storage and application of wood preservatives observe the rules and regulations pertaining to storage of water-hazardous liquids and protection of soil, surface waters, ground water and air. Do not store along with foodstuffs, beverages and fodder. Keep out of reach of children.
General directions	Observe safety data sheet as well as the leaflet of the "Deutsche Gesellschaft für Holzforschung e. V. (German Association of Timber Research)" laying down the rules for secure service of non-pressure plants. Not for timber that is in direct contact with foodstuffs and fodder. Although Diffusit [®] S is not irritant parts of the skin which have come into contact with Diffusit [®] S and its solutions have to be washed with plenty of water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Do not use eating and drinking vessels for the solutions. Do not wet plants. Do not treat timbers for beehives, hot-houses and greenhouses. The compatibility with coating systems subsequently applied is not always given and is subject to prior testing. Under unfavourable conditions salt crystals can appear on the timber surface. This does not negatively affect the efficacy. Applications only by specialized companies. Wood preservative products contain biocidal agents for the protection against fungi and/or insect attack. They have to be used according to the instructions, and only in those cases where protective measures are necessary.

The above information has been compiled according to the latest techniques of development and application. As the use and processing of the product is not within our control we can only vouch for the unchanging quality of our wood preservatives. In cases of doubt, please consult our technical service for advice.

Use wood preservatives safely. Always read the label and product information before use.