

GLOBALFOAM WR

Resin for civil engineering Stopping of flowing water and ground consolidation

INTRODUCTION

Polyurethane/ polyurea resin suited for sealing of cracks, joints, cavity filling and for consolidation of crushed manufacture made of stone or cement, in presence of dampness.

In contact with water starts a chemical reaction that forms a closed-cells consolidating foam, which is waterproof and has a good chemical stability.

Water reactive, high foaming system with separated catalyst (for changing the reaction time)

Expansion time depends on quantity of catalyst mixed up with base, on presence and quantity of water and on temperature.

TECHNICAL PROPERTIES

(at +25°C and 60% R.H.)

Chemical composition:

GLOBALFOAM WR BASE : polymer diphenylmethane diisocyanate – extender and additives

GLOBALFOAM WR CATALYST : mixture of tertiary amines in plasticizer extender

Appearance:

GLOBALFOAM WR BASE : dark liquid

GLOBALFOAM WR CATALYST : amber-coloured transparent liquid

Density (ISO 758):

GLOBALFOAM WR BASE : 1,210 ± 0,037 (g/cm³)

GLOBALFOAM WR CATALYST : 1,100 ± 0,033 (g/cm³)

Mixing ratio:

BASE+CATALYST : from 100:1 to 100:5, according to wished reaction's speed

Pot life mixture: : over 8 hours (formation of a thin crust of hardened product does not prejudice mixture's workability.

(BASE+CATALYST)

Application : by using lower-pressure pumps or by pouring, after accurate mixing of base + catalyst in selected ratio.

Start of reaction:

(Note: this product expands : BASE+CATALYST (100+1 parts by weight): 3-4 minutes

only when in contact with water) : BASE+CATALYST (100+2 parts by weight): 1-2 minutes

Aspect of hardened product (expanded) : BASE+CATALYST (100+5 parts by weight): 20-30 seconds

: close-cells semi-flexible yellowish foam

Application Temperature* : +3°C - +50°C

Service Temperature* : -30°C/+80°C

Shelf life : 6 months, stored in their original tightly closed containers in a fresh and dry place. (0°C/+30°C).

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Note: both components A and B don't suffer storage for few days even at very low temperatures (till -30°C, i.e. during transportations in winter time); in any case, in order to get the maximum results during the application, we recommend keeping the storage temperature not below 0°C. Component A suffers high humidity condition (isocyanate based), therefore we suggest opening the can immediately before the application and in case of humid environment, please use the whole content. In winter time, we suggest transportation inside insulated containers.

*Application temperature: it's the temperature at which the product must be applied.

*Service temperature: it's the "working temperature" of the product; that is to say, the temperature to which can resist the product once it has been applied.

NOTE. The information given to users is based on our best experience. However, because of the many possible applications, which are outside of our knowledge and control, we cannot accept liability for loss or damage resulting from reliance upon such information.

PACKING

1kg+20kg

