

MINING

EKOFLEX PLUS

PHENOLIC FOAM

DESCRIPTION

Ekoflex Plus is a two-component foam, obtained after mixing component A (aqueous solution of phenol-formaldehyde resin) and component B (aqueous solution of organic and inorganic acids) in a volume ratio of 4:1. The foam property allows use under various geological and mining conditions.

APPLICATION AND USE

Ekoflex Plus is used for fire and methane hazard prevention by filling voids, sealing mined-out openings & walkways. It can also be used to build or seal insulation and ventilation dams.

ADVANTAGES

- High efficiency
- Low content of free formaldehyde
- Ability to use under a wide range of geological and mining conditions
- Low reaction temperature
- Good gas-insulation
- Does not disturb gas indicator readings
- Ability to use in environments where fire hazard occurs

TECHNICAL DATA

The data below are laboratory data. They may vary in practice due ambient temperature, pressure and other factors.



TECHNICAL PROPERTIES

SYSTEM DATA

| Parameter | Unit | Value |
|---|-------|-----------------|
| Foaming factor | - | 30-50 |
| Reaction time - start | [s] | < 2 |
| Reaction time - setting | [min] | < 4 |
| Free HCHO content | % | < 0.1 |
| Compressive strength at 10% deformation | [MPa] | > 0.03 |
| Flammability | - | self-extinguish |
| Anti-electrostatic | - | dissipative |

APPLICATION METHOD

Phenol-formaldehyde foam is supplied through a pump-set with a component volumetric pumping ratio of 4:1. During the pumping, the components are mixed in a static mixer and form foam, which hardens within a few minutes. For details, please see the Application Instructions.

SAFETY INSTRUCTIONS AND LIMITATIONS

Failure to follow the application equipment operating manual, and particularly its technical condition, insufficient cleaning and lack of maintenance can lead to a change in the ratio of the supplied components which then reduces the effectiveness of foaming or makes it completely impossible. In consequence, the obtained foam might have inadequate parameters (non-homogeneous structure, inadequate foaming factor, reduced durability). Do not use in poorly ventilated areas.

When applying the product, use standard PPE meant for work with chemicals: safety gloves and goggles, protective clothing etc. Immediately change the clothes if they become soaked with components. For detailed safety information please see the Material Safety Data Sheet.

PACKAGING AND TRANSPORTATION

Foam components are packed into barrels/canisters with a capacity of 20 or 30 liters. Containers are delivered on pallets. After arranging with the customer, the material can be delivered in alternative packages (for instance 200 liters barrels or 1000 liters containers.)

STORAGE AND SHELF LIFE

The components A and B shall be stored in airtight containers and in dry and well-ventilated areas at 10 - 20°C.

The warranty period for properly stored components is respectively: 2 months for component A (resin) and 12 months for component B (hardener).

DISPOSAL

Follow local regulations.

APPROVALS AND CERTIFICATES

Certificate - safety mark "B"
Hygienic assessment (PZH)

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ADDITIONAL DOCUMENTATION

- Ekoflex Plus komponent A MSDS
- Ekoflex Plus Komponent B MSDS

LIST OF REPRESENTATIVES

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- ITALY: Minova CarboTech GmbH Italy branch
- KAZAKHSTAN: Minova Kazakhstan LLP
- POLAND: Minova Ekochem S.A.; Minova Arnall Sp. z o.o.; Minova Ksante Sp. z o.o.
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CUSTOMER SERVICE

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