# Betol® K 5020 T

**Binder and Adhesive for Silicate based Insulation and Refractory Materials, Coatings, Glues**

**Chemical description**

Betol K 5020 T is an inorganic binder based on an aqueous solution of special modified potassium silicate.

**Mode of action**

Betol K 5020 T reacts with and adheres to mineral surfaces by silicification.
Due to the good bonding capacity and high temperature stability, fire and acid proof glues and sealants can easily be formulated.
In combination with special inorganic or organic hardeners enhanced curing and water resistance can be achieved.

**Specification (average values)**

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| Dry content: | approx. 48,0 % | 007 *) |
| Density (20°C): | approx. 1,53 g/cm³ | 042 *) |
| pH value: | approx. 12,5 | 008 *) |
| Viscosity (20°C): | approx. 225 mPas | 053 *) |
| Solubility: | soluble in water in any proportion | |

*) *Internal method code – description available on request*

**Properties**

- storage stable alkaline liquid,
- good bonding power and effect,
- excellent adhesion to mineral surfaces,
- heat and acid resistant,
- stable even under extreme climatic conditions,
- anticorrosive, antistatic, stable against UV radiation,
- does not evolve any noxious gases / vapours in case of fire.

**Application**

- construction industry / construction chemicals,
- insulation and fireproof panels and shaped materials,
- mineral coatings,
- hardener for mineral (e.g. cement) based mortars or plasters,
- acid proof mortars and refractories,
- agglomeration or briquetting of dust particles,
- welding rod industry.

**Note**

Keep Betol K 5020 T in closed receptacles. Before application a thorough hiding of glass, ceramics, light metals and natural stones is necessary. In case of spilling or splashing wash immediately with water. At the end of the work clean tools immediately with (warm) water.

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| **Storage** | Protect Betol K 5020 T from frost. Storage stability in closed containers at least 12 months. Do not store Betol K 5020 T in aluminium or galvanized receptacles. |
| **Labelling / Safety** | Please see safety data sheet |
| **Packaging** | On request |

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