Two-component polyurethane sealant TECHNONICOL 2K

Manufactured according to TU 2513-081-72746455-2014

PRODUCT DESCRIPTION:

The two-component polyurethane sealant TECHNONICOL 2K is intended for sealing of interpanel joints, slots, cracks in the course of construction and repair of all types of civil and industrial buildings and constructions, including offshore hydrotechnical facilities, roads and other structures. Two colors of the product are available: white and grey.
After mixing of components, the product curing is a result of chemical reaction. The material has a wide range of operating temperature (from minus 60 °C to plus 70 °C), high elasticity and resistance to UV-radiation. Acrylic paint can be applied on white sealant, painting of grey sealant is not recommended.

AREA OF USE:

The product is intended for sealing of:
- joints of vertical, inclined and horizontal civil structures;
- expansion joints with maximum deformation up to ±25 %;
- solid and composite reinforced concrete structures;
- pipe passages through different structures.

FEATURES AND ADVANTAGES:

- no shrinkage during curing;
- wide range of application temperature;
- resistant to UV-radiation;
- appropriate for painting;
- resistant to oil and gasoline.

BASIC PHYSICAL AND MECHANICAL PROPERTIES:

Parameter name	Unit of measurement	Condition	Value	Testing method
Density	g/cm^3	range	1.45±0.02	TU 2513-081-72746455-2014
Pot life at t=+20 °C	hours	range	5-9	according to TU 2513-081-72746455-2014, GOST 19007-73 (cl.3.8)
Nominal strength at rupture of dumbbell test specimens	MPa	min.	0.3	according to TU 2513-081-72746455-2014, GOST 21751-76 (section 4.1)
Elongation at rupture of dumbbell test specimens	%	min.	350	according to TU 2513-081-72746455-2014, GOST 21751-76 (section 4.1)
Nominal strength at rupture of test seams	MPa	min.	0.25	according to TU 2513-081-72746455-2014, GOST 25945-98 (section 3.2)
Elongation at rupture of test welds	%	min.	300	according to TU 2513-081-72746455-2014, GOST 25945-98 (section 3.2)
Yield resistance	mm	max.	1	according to TU 2513-081-72746455-2014, GOST 14791-79
Fracture pattern	-	-	cohesive	visually

PACKAGE INFORMATION:

Parameter name	Unit of measurement	Value
Volume of buckets	l	12
Net weight	kg	12
Quantity of buckets on pallet	pcs.	48
Gross weight of pallet*	kg	595

*Pallet gross weight is a reference value, which can vary depending on packaging materials in order to ensure integrity of buckets in the course of transportation and storage.

OPERATION CONDITIONS:

- SP 70.13330.2012;
- cl. 6 of TU 2513-081-72746455-2014;
- Instructions for sealing of interpanel joints using the sealant TECHNONICOL 2K.

Ambient temperature during application: from minus 20 °C to plus 30 °C. Mix the components A and B before sealant application. Mixing must be performed in a well-ventilated room using an electrical drill with power 600…800 W equipped with a helical mixer. Minimum mixing time is 10 minutes. Viscosity of sealant components increases at low temperature. Thus, before application, it must be held at temperature from plus 20 °C to plus 25 °C for 24 hours. Sealant curing time depends on ambient temperature.
Sealant dilution with solvents is prohibited since it can cause irreversible change of its properties. The sealant must be applied on moistened (but not wet) surface. The surface must be thoroughly cleaned from dirt, grease, residues of cement mortar or previously used sealants. Clean the surface from ice and white frost when application of sealant is performed during the cold season. In order to ensure designed thickness of sealant layer in the joint, as well as to avoid adhesion of the sealant and the hard-base material, it is recommended to use anti-adhesion gaskets made of polyethylene foam. In case of sealant application for sealing of joints on motor-road plates made of reinforced concrete, we recommend to apply the polymeric primer TECHNONICOL No. 08 before application of the sealant.
Avoid contact with skin and eyes. The product can be used in residential premises upon condition of complete curing of the sealant before introduction of premises into operation. Do not use near open fire sources. The product can be used in all climatic regions according to SP 131.13330.2020.

TRANSPORTATION:

The sealant can be transported in covered vehicles by any means of transportation in one row with same height according to Shipping Rules relevant for the specific means of transportation.
The sealant must be transported in compliance with rules for transportation of inflammable substances.
Sealant must be transported at temperature from minus 30 °C to plus 40 °C.

STORAGE:

Store the product in a dry place protected from light at temperature from minus 20 °C to plus 30 °C.
During storage, the sealant must be protected from contact with moisture, oil, gasoline, kerosene, acids and alkali.
The manufacturing company guarantees that the material conforms to requirements of Technical Conditions under observance of transportation and storage conditions, as well as application instructions.
Guaranteed storage period of the material – 12 months from the date of manufacturing.

CODES ACCORDING TO CLASSIFIERS:

OKPD2: 20.30.22.170

KSR: 20.30.22.14.2.01.02-1002

TN VED: 3214 10 100 9

CUSTOMER SERVICES: