Polychem Systems

Technical Data Sheet

EN

DEKO ZN-5

Issue date 09.11.2011
Revision date 25.11.2021

Product description

The product is intended for thermoinsulating materials, like foamed polystyrene, mineral wool and PUR foam gluing with foundations (made of lacquered galvanized and stainless metal sheets, wood, concrete, porous ceramic substrates, gypsum boards, fibrous boards and the like).

State of aggregation	liquid
Colour	brown
Viscosity at 25°C [mPas]	3000 - 6000
Density at 20°C [g/cm³]	1,10 - 1,20

Application method recommended

Glued surfaces should be free of dirt and degreased, if necessary.

The adhesive should be spread on joined elements or – if it is not necessary to bond the whole surface – spread in form of stripes with 100 mm distances between (additionally it should be spread on joined surfaces edges). The adhesive stripes width should be 5 – 10 mm. The adhesive consumption should be not less, than 200 g/m² at application on the whole bonded surface and not less, than 150 g/m² at application in the form of stripes. In the case of absorptive materials bonding the adhesive consumption increases: e.g. for mineral wool it should be not less, than 300 g/m². Volume of the adhesive applied has to provide both joined surfaces wetting with it. In the case of gluing of impenetrable to air materials (excluding timber) the adhesive spread should be bedewed with water mist to provide complete hardening of the joint. Water delivery provides simultaneous hardening of the joint on the whole surface. Both joined elements should be tightened to each other after the adhesive and water mist dosing and kept under load to complete glued joint hardening.

Optimum humidity	50 - 70%
Time for full strength of the joint achieving [h]	24
Application temperature range [°C]	5 - 40
The adhesive consumption [kg/m²]	0,15 - 0,5

Wash off fresh contaminations with Pursan ACT solvent. The hardened product can be removed mechanically.

Technological properties*

The product hardens by reaction with moisture that is contained in air and glued materials. At temperature rise and with air and joined materials moisture content rise the adhesive hardening time becomes shorter. The adhesive forms flexible joint after bonding, unaffected by temperatures from -40°C to +80°C.

Glue joint enlarges its volume in the course of bonding – the adhesive foams. Foaming degree increases with hardening speed increase.

The adhesive technological times in room conditions (23°C, 50% relative humidity, the adhesive bedewed with water)	
Open time for glued elements setting together and pressing [min]	6
Pressing time in the case of soft materials (e.g. mineral wool, foam with g<60 kg/m³) gluing [min]	15
Hard materials pressing time [min]	25
The adhesive technological times (30°C, 50% relative humidity, the adhesive bedewed with water)	
Pressing time in the case of soft materials (e.g. mineral wool, foam with g<60 kg/m³) gluing [min]	13

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Hard materials pressing time [min]	24
The adhesive technological times (35°C, 50% relative humidity, the adhesive bedewed with water)	
Pressing time in the case of soft materials (e.g. mineral wool, foam with g<60 kg/m³) gluing [min]	11
Hard materials pressing time [min]	22
The adhesive technological times (40°C, 50% relative humidity, the adhesive bedewed with water)	
Pressing time in the case of soft materials (e.g. mineral wool, foam with g<60 kg/m³) gluing [min]	9
Hard materials pressing time [min]	20
The adhesive technological times (45°C, 50% relative humidity, the adhesive bedewed with water)	
Pressing time in the case of soft materials (e.g. mineral wool, foam with g<60 kg/m³) gluing [min]	8
Hard materials pressing time [min]	18
The adhesive technological times (50°C, 50% relative humidity, the adhesive bedewed with water)	
Pressing time in the case of soft materials (e.g. mineral wool, foam with g<60 kg/m³) gluing [min]	8
Hard materials pressing time [min]	17
The adhesive technological times (55°C, 50% relative humidity, the adhesive bedewed with water)	
Pressing time in the case of soft materials (e.g. mineral wool, foam with g<60 kg/m³) gluing [min]	7
Hard materials pressing time [min]	16
The adhesive technological times (60°C, 50% relative humidity, the adhesive bedewed with water)	
Pressing time in the case of soft materials (e.g. mineral wool, foam with g<60 kg/m³) gluing [min]	6
Hard materials pressing time [min]	15

Transport and storage

Store in dry, well ventilated room, in tightly closed containers. Protect against moisture access and direct exposure to sunrays. Store away from heat sources, in the container originally packaged in a vertical position.

One should open the container, take necessary volume of the adhesive and close it tightly again. Store in position making outflow impossible.

Permissible temperature during transport [°C]	10 - 25
Recommended storage temperature [°C]	10 - 25

Storage life from manufacture date, if stored in recommended conditions and in original containers:

- metallic containers (drums, hobbocks, cans) **12 months**
- barrels, canisters and bottles made of plastics **12 months**
- IBC containers **6 months**

Application safety

Read carefully Safety Data Sheet of the product before use. Wear standard protective clothing when operating with the product.

*Notes

Data presented in this information have been obtained during the system foaming in model conditions. The results obtained when foaming in other conditions can be slightly different from published.

Every time the user is obliged to check the product and auxiliary agents usefulness for his intentional use.

The user is obligated to have a valid technical data sheet and safety data sheet of the product, which is provided by the manufacturer during the sale and every time on the customer's request.
Prior to processing the user must carefully read aforementioned documentation and follow the rules of procedure for product use.