

Technical data sheet E71649 - cartridges E91649 - hobbocks

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Cross-linking Hot Melt

Part numbers: E71649 - cartridges
E91649 - hobbocks

APPLICATORS : HB 700 K - series
HB Bulk Systems

APPLICATIONS

Constructive bondings demanding high standards of strength and temperature resistance while bonding wood, textiles, leather, foam, conveyor belt production and many plastics such as ABS, PVC, PMMA and PC.

PROPERTIES

A chemical cross linkage reaction produced by humidity of the air or moisture of the material is entering and results in characteristics of thermosetting plastics, good resistance against solvents, a high cohesion and a high elasticity even at low temperatures.

DESCRIPTION

Type : Hot melt based on prepolymer of polyesterurethane with isocyanate-groups

Colour : white

Marking : Xn, harmful (in compliance with the German regulations for dangerous materials and Directive 67/548/EEC)

Hazardous material Share: Isocyanate, CAS-no. 101-68-8 about 2 percentage by weight

Prescription for treating : R-prescriptions, S-prescriptions (R = information on special hazards, S = safety advices)

TECHNICAL DATA

Softening point : approx. 70 °C (Ring and ball) in the state of material as supplied

Heat resistance : approx. 180 °C (WPS 68, shearload 100 g/cm²) 72 h after application

Viscosity : approx. 7000 mPas at 120 °C (Brookfield)

Specific gravity : approx. 1.10 g/cm³

Solids content : 100%

Working temperature : 100°C – 120°C

Open time : approx. 480 s, depending on material and quantity of adhesive applied (strip shaped application, dia. 3 mm, 130 °C material strip (thickness 4 mm).

Setting time : approx. 240 s, depending on insulating effect of materials to be bonded and on application method and kind of material (see above open time).

Final strength : A careful handling of the bonded work-pieces is possible after the setting time. Final strength of the adhesive joint is reached after one day or later according to the chance of penetration of moisture.

Size : Alu cartridges - dia. approx. 47 mm, length approx. 215 mm Hobbocks

When applying the hot melt by spray melt systems the value of the open time is reduced.

PACKAGING

Cartridges - content approx. 310 g, 35 pieces/pack
Hobbocks - 2-kg-barrel in 20-kg-pack, 18-kg-barrel

Slight variation in the colour of the adhesive is normal and should not be seen as a quality problem.

STORAGE

Dry storage under indoor conditions and when stored in the original packing. Expiration date is marked on the cartridges and barrels.

SAFETY INSTRUCTIONS

Attention: Pre-heated cartridges, the nozzles of the applicator and the molten adhesive can reach temperatures of 130 °C. Careless contacts result in skin burnings.

Take note of operating instructions of applicator and of cartridge preheater!

The working temperature of the hot melt adhesive has not to exceed the indication shown in the technical data sheet. Working up only in rooms sufficiently ventilated (S 51 - German prescriptions). Care for MAK-Wert (TLV-TWA value). Do not inhale fumes and spray (S 23 - German prescriptions). When using do not eat, drink or smoke (S 20/21 - German prescriptions). Even when using the hot melt within the correct temperature range a slight fume is produced. Even exceeding the working temperature for a longer period decomposition products are developing being harmful to one's health (see Safety Data Sheet according to the Directive 91/155/EEC).

Preventive measures for first aid

When working with molten hot melt adhesive:

After skin contact: Cooling of the skin area with much cold water immediately.

After eye contact: Irrigate eyes at opened eyelid with running water for several minutes.

The cold hot melt adhesive should be removed by a physician.

Indisposition after inhaling fumes:

Supply fresh air and consult a physician.

If swallowed: In case of persistent complaints consult a physician.

APPLICATION

The surfaces to be bonded must be free of dust, dirt, moisture, grease, release agents.

Attention: Plastic- and paint-materials containing plasticizers may destroy bond strength.

Apply adhesive as a spot, continuous strip or bead respectively spray a layer of sufficient thickness and join the parts together immediately. Short-time pressure will increase the bond strength. At a constructive bonding a full stress is not advisable before 72 h after the bonding.

As PU hot melts do react with moisture, it is recommended to drive bulk systems with a cover of nitrogen.

CLEANING

After working end the applicators have to be cleaned:

HB Bulk Systems with cleaner 91233 or 91996.

HB 700 K - series with cleaner 71233

REMARKS

The details in our instruction sheets and other publications are provided to the best of our knowledge. Their contents are not, however, legally binding. In all cases, we recommend that preliminary tests are carried out by the customer. In all other respects, our General Terms of Sale apply. Professional advice and rapid response from our central office in Bremen, and our subsidiaries, ensure you of reliable service