Addolink® TT

**Function**
Bonding agent to improve the adhesion of fabrics (polyester, polyamide, aramide) to plasticized PVC or rubber and for the manufacture of 1 K-PUR micro-encapsulated adhesive-sealant systems.

**Product description**
- **Chemical composition:** dimeric toluene-2,4-diisocyanate
- **Physical form:** white to bright yellow powder
- **Addolink TT-content:** approx. 98 %
- **Melting point:** > 140 °C
- **Density (20 °C):** approx. 1.48 g/cm³
- **NCO content:** approx. 24 %
- **Solubility in water:** insoluble
- **Anti agglomerating agent:** < 1 % pyrogenic silica

**Product informations**

Addolink TT is used to improve the adhesion of polyester, polyamide or aramide fabrics to plasticized PVC. For this, a 2-component bonding agent system consisting of either:

- Bonding agent TN/N (Supplier 1) - Addolink TT or
- Bonding agent TN/S 50 (Supplier 1) - Addolink TT

is added to the plasticized PVC paste.
To improve the processing characteristics of Addolink TT, a 50 % dispersion should be mixed into a plasticizer such as Mesamoll.

**Dosage:**
Addolink TT (50%) 3.0 - 6.1 parts by weight with 3 - 5 parts by weight Bonding agent TN/N or Addolink TT (50%) 2.9 - 5.7 parts by weight with 4 - 8 parts by weight Bonding agent TN/S 50 added to 100 - 110 parts by weight plasticized PVC paste.

The finished anchor coat is applied to the fabric. Once applied, the coating is fused at 180 °C, which anchors it to the fabric.

Adhesion to rubber:
Addolink TT is also used to improve the adhesion of polyester, polyamide or aramide fabric to rubber. For this, the fabric must be pretreated with a special spin finish. For this application, Addolink TT should be made up into a 50% aqueous dispersion.

The following latices have proven particularly suitable for pretreating the fabric in combination with Addolink TT:

- Pyratex 221 (Supplier 2),
- Pyratex 240 (Supplier 2),
- Pyratex 241 (Supplier 2)

The aqueous impregnating mixture required for the spin finish should contain formaldehyde and thixotropic agents besides products such as Bunatex VP PU 2110 and Addolink TT. After the fabric has been impregnated, it is dried and condensed at 225 - 240 °C.

1 K-PUR micro encapsulated adhesive sealant systems:

For use in bonded glass joints, folding seam seals and as an underbody sealant in motor vehicles. Products such as ARCOL POLYOL 1105 (1), Desmophen 1150 (1) or Bayfit 1922 (1) can be used as polyl components.

The following amines are used for micro-encapsulating (= stabilizing) of Addolink TT:

- Laromin C 260 (Supplier 3)
- Jeffamin T 403 (Supplier 4).

The systems are adjusted in combination with other amines such as RC Crosslinker 1701 (DETDA) or Jeffamin T-5000 (4) to reach an NCO/OH or NCO/amine ratio = 1 : 1. Adhesive-sealant systems in the form of pastes can be manufactured by adding fillers such as BaSO4, high-activity silica, carbon black or chalk. The average stoving conditions for 1 K-PUR micro-encapsulated systems are: 30 min. at 120 °C.

Suppliers:
(1) Rhein Chemie Rheinau - Mannheim,
(2) Polymer Latex GmbH - Marl
(3) BASF - Ludwigshafen
(4) Huntsmann - Hamburg

### Packing
Carton with PE-inliner, contents 20 kg

### Storage stability
When Addolink TT is stored under cool and dry conditions and in firmly closed original containers, a shelf life of 1 year can be expected.

### Handling
Consult material safety data sheet (MSDS) for additional handling information for Addolink TT.
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