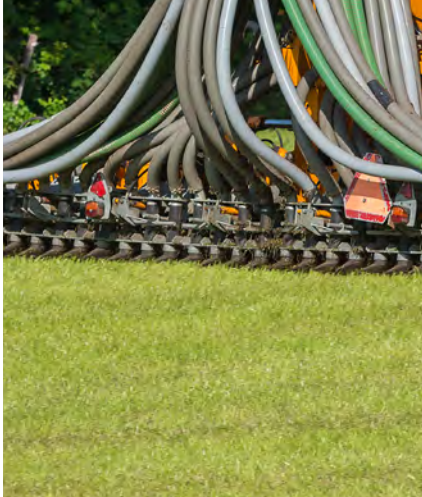




# HOSES FOR AGRICULTURE

# YOUR SPECIALIST FOR HOSES IN AGRICULTURE

Flexible hoses have been associated with a number of applications and machinery for the agricultural industry. Schauenburg Hose Technology Group is serving the agricultural industry since many years, providing solutions for both end use applications and machinery (OEMs). In the following pages you will find our most popular solutions for the key applications in the agricultural industry. If you require more details on a product, or are not sure of which product to select, our sales team will be happy to assist you.

## SLURRY SPREADING

No fertilizer, no yield. In order to keep the nutrient content in the soil at a stable level and thus ensure good and even plant growth, fertilization is essential. Following years of development and experience gained with our cooperation with OEMs specialized in the slurry application, we can supply you with complete sets of hoses for dribble bars and trailing shoes.



  
food grade

  
microbe resistant

  
hydrolysis resistant

  
grounding wire

  
permanently antistatic

  
electrically conductive

  
high temperature

  
flame retardant

  
abrasion resistant

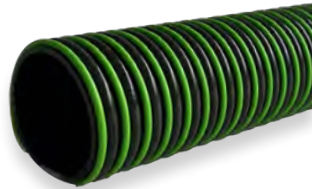
  
Very smooth inside

  
Eco friendly raw material

## SLURRY SPREADING

### DISTRIBUTION HOSES

DOUBLEFLEX® AGRI SUPER



**Properties and Applications**  
Hose specially designed for slurry distribution systems with a patented double spiral construction, offering an extreme flexibility, increased wear resistance against external friction, and a kink free small bending radius compared to standard hoses for this application. All materials used for the spiral and wall are UV resistant to prevent degradation during long-term exposure to sunlight. Wall is made from specially formulated material for an increased resistance to low temperatures.  
**Structure**  
Soft-PVC, green, UV resistant with rigid PVC helix, white and a second UV resistant external helix, green  
**Temperature Resistance**  
- 40°C up to + 50°C

APDatec 105



**Properties and Applications**  
Light duty hose for slurry distribution systems and dribble bars, highly flexible even at very low temperatures. Made of UV resistant material to prevent degradation on long term exposure to sunlight. The smooth internal surface allows for high flow rate and the smooth external surface allows an easy installation on dribble bar systems.  
**Structure**  
Soft-PVC, green with rigid PVC helix, white  
**Temperature Resistance**  
- 20°C up to + 50°C

SMOOTHFLEX PU AGRI MHR



**Properties and Applications**  
Light and very flexible hose with smooth inner bore for maximal flow rate. Outer convolution allows bore to stay in shape even when bent, small bending radius. Abrasion, microbe and hydrolysis resistant, and with UV additive, ensuring a long service life compared to PVC wall hoses.  
**Structure**  
Polyether-Polyurethane, green transparent, with rigid PVC helix  
**Temperature Resistance**  
- 30°C up to + 80°C

FLEXACIER® SUPER EXTRA UV



**Properties and Applications**  
Medium duty and flexible suction and delivery hose with PVC coated galvanized spring steel wire and a low shore hardness PVC wall for an excellent flexibility under low temperatures. Smooth inner bore and outer surface with a UV protection, ideal for slurry injector systems.  
**Structure**  
Soft-PVC, transparent with galvanized spring steel wire  
**Temperature Resistance**  
- 30°C up to + 50°C  
**Optional**  
FLEXACIER® EXTRA UV

### SUPPLY & TRAILING HOSES

DOUBLEFLEX® PUMP V



**Properties and Applications**  
Medium duty suction hose featuring a patented double spiral construction for increased vacuum resistance with a lower weight. Used as the main supply hose to the distribution system. The patented double spiral, provides a full protection of the wall of the hose to puncture and dragging. The surface slides perfectly on the floor thanks to the external spiral that allows to the operators an easy manipulation of the hoses in use. External spiral and wall with UV resistance for a longer service life.  
**Structure**  
Soft-PVC, green UV resistant with rigid PVC helix, white, and a second UV resistant external helix, white  
**Temperature Resistance**  
- 30°C up to + 50°C

APDatec 144



**Properties and Applications**  
Medium duty hose with a PVC/NBR blended wall for an increased flexibility and resistance to extreme low temperatures. Slightly corrugated surface for easy installation, ideal as filler hose on slurry tank systems or as supply hose to slurry dribble bars.  
**Structure**  
PVC-NBR compound, silver with rigid PVC helix, white  
**Temperature Resistance**  
- 40°C up to + 50°C  
**Optional**  
With external spiral for increased abrasion protection when dragging

VIDASPIR S



**Properties and Applications**  
Heavy duty suction hose for filling slurry tanks, ideal solution where increased vacuum resistance is needed, e.g. for suction of thicker slurry. Smooth bore for increased flow rate and smooth outer surface for easy installation.  
**Structure**  
Soft-PVC, gray reinforced with rigid PVC helix, white  
**Temperature Resistance**  
- 25°C up to + 50°C  
**Optional**  
Medium duty, super elastic

APDatec 105ST



**Properties and Applications**  
Light duty, rigid end hose for dribble bars in slurry distribution systems. Due to its structure and materials used, the hose will remain straight, ensuring a defined distance between the discharge lines. Available in fixed lengths of 600 mm, 800 mm, 1.000 mm.  
**Structure**  
Rigid-PVC, green with rigid PVC helix, white  
**Temperature Resistance**  
- 5°C up to + 60°C

# SEEDING

We offer an extensive range of highly abrasion resistant Polyether-Polyurethane (PU) hoses, also with antistatic or electrically conductive material for conveying seeds through pneumatic seed drill machines. Alternatively, we can offer more economical solutions with PVC-based hoses – using advanced compounds blended with nitrile rubber (NBR), or with abrasion resistant inner layer made of Polyurethane. We also offer hoses made of steel wire reinforced PVC hoses for gravity systems.



## AIR FLOW & PRIMARY DELIVERY

SMARTFLEX® 0.4

**Properties and Applications**  
Light weight and very flexible Polyurethane hose, compressible with 0.4 mm wall thickness, for suction of dusts and small particles, hydrolysis and microbe resistant, antistatic (R<10<sup>9</sup> Ohm), flame retardant.

**Structure**  
Polyether-Polyurethane, transparent with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C  
(short term up to + 125°C)

SMARTFLEX® 0.7

**Properties and Applications**  
Medium weight and flexible Polyurethane hose with 0.7 mm wall thickness, smooth bore, for seed drill machines, transport of grain, hydrolysis and microbe resistant, antistatic (R<10<sup>9</sup> Ohm), flame retardant.

**Structure**  
Polyether-Polyurethane, transparent with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C  
(short term up to + 125°C)

SMARTFLEX® 1.0

**Properties and Applications**  
Medium weight and flexible Polyurethane hose with 1.0 mm wall thickness, smooth bore, for seed drill machines, convey of grain or fertilizer, hydrolysis and microbe resistant, antistatic (R<10<sup>9</sup> Ohm), flame retardant.

**Structure**  
Polyether-Polyurethane, transparent with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C  
(short term up to + 125°C)

SMARTFLEX® 1.4

**Properties and Applications**  
Medium weight and flexible Polyurethane hose with 1.4 mm wall thickness, smooth bore, for seed drill machines, conveying grain or bulk material, hydrolysis and microbe resistant, antistatic (R<10<sup>9</sup> Ohm), flame retardant.

**Structure**  
Polyether-Polyurethane, transparent with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C  
(short term up to + 125°C)

# SEEDING

## SEED & FERTILIZER DELIVERY

VACUFLEX® VC2-PU-MI

**Properties and Applications**  
Medium weight and very flexible hose for seed drill machines for transfer of grains, abrasion resistant, microbe- and hydrolysis resistant, with smooth inner bore for maximal flow rate.

**Structure**  
Polyether-Polyurethane, transparent, with rigid PVC helix, blue

**Temperature Resistance**  
- 30°C up to + 80°C

SMOOTHFLEXX PRO PU EL X-TRA MHR

**Properties and Applications**  
Medium weight and flexible PU hose with a 1 mm wall thickness, electrically conductive (R ≤ 10<sup>4</sup> Ohm) recommended for Industry 4.0 seeders as the electrical charges created during the transfer of the seeds are electrically dissipated and will not harm electronic sensors or controllers. Abrasion resistant, microbe and hydrolysis resistant. An extreme inner smooth bore for maximal flow rate and an outer convolution allowing bore to stay in shape even when bent.

**Structure**  
Polyether-Polyurethane, black, with rigid PVC helix, black

**Temperature Resistance**  
- 30°C up to + 80°C

**Optional**  
With copper wire for grounding

FLEXADUX® P 7 L PU EL

**Properties and Applications**  
Medium weight and flexible PU hose with a 0.7 mm wall thickness, electrically conductive (R ≤ 10<sup>9</sup> Ohm). Smooth bore, with very good abrasion, microbe and hydrolysis resistance. Recommended for Industry 4.0 seed spreaders as the electrical charges created during the transfer of the seeds are electrically dissipated and will not harm electronic sensors or controllers.

**Structure**  
Polyether-Polyurethane, black with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C

**Optional**  
With 1.4 mm wall thickness

APDatec 124

**Properties and Applications**  
Light duty PVC hose with PU inner layer. The hose combines the vacuum resistance of a PVC suction hose with the abrasion resistance of a PU hose and a smooth internal wall for a maximal flow rate.

**Structure**  
PVC gray, with a Polyester- Polyurethane inner layer and rigid PVC helix

**Temperature Resistance**  
- 5°C up to + 60°C

**Optional**  
With copper wire

MONOFLEXX EXTRA UV

**Properties and Applications**  
Specially designed for dry conveying of seeds and grains in secondary and tertiary air seeder lines. Transfer of liquid solutions, wherever a good flexibility is needed even at low temperatures. Increased weathering resistance due to specially designed UV resistant material.

**Structure**  
Soft-PVC, transparent UV resistant, with rigid PVC helix, black

**Temperature Resistance**  
- 40°C up to + 60°C

SERIE 3 PVC SX UV

**Properties and Applications**  
Medium weight and flexible PVC ducting for seeding machines, with increased wall thickness (depending on the diameter) allows a good wear resistance. Increased weathering resistance due to specially designed UV resistant material.

**Structure**  
Soft-PVC, transparent with rigid PVC helix, black

**Temperature Resistance**  
- 5°C up to + 60°C

**Optional**  
With PVC NBR compound for increased flexibility and wear resistance

FLEXACIER® STD

**Properties and Applications**  
Medium duty and flexible suction and delivery hose with galvanized spring steel wire to provide flexibility with a combination of good vacuum and pressure resistance, smooth inner bore and outer surface, ideal for seed distribution by gravity systems.

**Structure**  
Soft-PVC, transparent with galvanized spring steel wire

**Temperature Resistance**  
- 5°C up to + 65°C

VIDASPIR NT

**Properties and Applications**  
Medium duty suction hose, specially designed for air seeder applications. Smooth internally, with a PVC/NBR wall, for low temperature resistance and better resistance to the seed abrasion due to NBR.

**Structure**  
Soft-PVC, black reinforced with rigid PVC helix, white

**Temperature Resistance**  
30°C up to + 50°C

# IRRIGATION

A large range of layflat discharge hoses for supply of water to drip irrigation systems or water canons will ensure a spill free irrigation of your land. For lower volumes of water, we can offer standard water hoses, as well as our advanced torsion and kink free Smartflex Garden Series. Our team of experts will guide you through the best solution for your application.



## FIELD IRRIGATION & DEWATERING

AGROFLAT



**Properties and Applications**  
High pressure resistant layflat hose up to 16 bar working pressure with excellent tear strength resistance and good abrasion resistance. Suitable for Irrigation columns (pivot, linear or drum).

**Structure**  
PVC/NBR wall extruded through the weave

**Temperature Resistance**  
- 30°C up to + 80°C

**Optional**  
AGROFLAT PU

ONE PU Germany



**Properties and Applications**  
Layflat hose designed for heavy duty applications, where high abrasion resistance, high working pressure and good chemical resistance are required.

**Structure**  
Woven Polyester fabric, white, with black EPDM coating inside and PU cover

**Temperature Resistance**  
- 30°C up to + 80°C

OneFlat Germany HD 14 Bar WP



**Properties and Applications**  
Layflat hose designed for heavy duty applications, where high working pressure and an economical solution is required.

**Structure**  
Woven Polyester fabric, white, with black PVC-coating inside

**Temperature Resistance**  
- 10°C up to + 60°C

**Optional**  
OneFlat Germany Standard Duty

OneFlat L & M



**Properties and Applications**  
Single or double layer PVC layflat, light duty version (4 bar working pressure/ 12 bar burst pressure) or medium duty version (7 bar working pressure/ 21 bar burst pressure). Ideal for water discharge or water conduits in drip irrigation systems.

**Structure**  
Soft-PVC, blue with Polyester fabric, white

**Temperature Resistance**  
- 20°C up to + 65°C

## IRRIGATION & WATERING IN CONTROLLED ENVIRONMENT AGRICULTURE (CEA)

Smartflex SMT Premium



**Properties and Applications**  
Premium garden hose for irrigation, featuring advanced SMT anti-torsion, braiding, preventing knots and kinks, and a soft touch surface. Recommended for watering crops, orchards, and greenhouses. Built to withstand outdoor conditions and heavy use, allowing for an easy maneuver around plants and obstacles.

**Structure**  
5-layer Soft-PVC hose with Polyester fabric, gray with green stripes

**Temperature Resistance**  
- 20°C up to + 65°C

Smartflex SMT Comfort – Yellow Edition



**Properties and Applications**  
Premium garden hose for irrigation, featuring advanced SMT anti-torsion, braiding, preventing knots and kinks, and a soft touch surface. Recommended for watering crops, orchards, and greenhouses. Built to withstand outdoor conditions and heavy use, allowing for an easy maneuver around plants and obstacles.

**Structure**  
5-layer Soft-PVC hose with Polyester fabric, gray with yellow stripes

**Temperature Resistance**  
- 20°C up to + 65°C

PleXus AT



**Properties and Applications**  
4 layer garden hose, UV and ozone resistant, free from algae formation, phthalate free, high tenacity polyester yarn with specialized tricot fabric technology, which actively prevents the hose from twisting. Key features are its light weight, the excellent flexibility even at low temperatures.

**Structure**  
4-layer Soft-PVC hose with Polyester fabric, yellow with red stripe

**Temperature Resistance**  
- 20°C up to + 65°C

PleXus Classic



**Properties and Applications**  
Standard duty garden hose, for irrigation and cleaning applications.

**Structure**  
Soft-PVC, yellow with green stripe and cross-braided Polyester fabric, white

**Temperature Resistance**  
- 20°C up to + 65°C

**Optional**  
With integrated GEKA couplings

GreenX Sprinkler Hose



**Properties and Applications**  
PVC irrigation hose with three chambers for garden irrigation – featuring small slits along its length that allow water to seep out and create a gentle spray or sprinkle effect for irrigation using the water pressure. Slightly flattened tubular shape allows to lie flat on the ground and keep the spraying on the correct side.

**Structure**  
Soft-PVC hose, green

**Temperature Resistance**  
- 20°C up to + 60°C

GreenX Soaker Hose



**Properties and Applications**  
A porous hose, that sweats water along its entire length. When connected to a water source, the low pressure inside the hose forces water to slowly seep out through thousands of tiny holes, delivering it directly to the soil and the plant's root zone.

**Structure**  
Soft-PVC hose, black

**Temperature Resistance**  
- 15°C up to + 60°C

GreenX Clearwater



**Properties and Applications**  
High-pressure rubber water hose with 20 bar working pressure and 60 bar burst pressure. Ideal for pumping fresh water, process water, and non-aggressive media. Abrasion resistant, light and ozone resistant, aging resistant, and flexible. All Rounder for many applications in civil engineering, industry, municipalities, trades, landscaping and agriculture.

**Structure**  
EPDM Rubber hose with cotton fabric black, with orange stripe

**Temperature Resistance**  
- 10°C up to + 100°C

GreenX Hydracord



**Properties and Applications**  
High pressure rubber water hose with a working pressure of up to 30 bar and a burst pressure of 90 bar. Ideal for conveying fresh water, service water, hot water, and even compressed air. It delivers consistent performance and extremely high stability. Naturally abrasion resistant, light and ozone resistant, aging resistant, oil resistant, seawater resistant, flexible and self extinguishing according to ASTM C-542.

**Structure**  
Rubber hose with cotton fabric black, with green stripe

**Temperature Resistance**  
- 30°C up to + 100°C

# SPRAYING

From compact backpack sprayers for focused treatment to robust boom sprayers for broad acreage, we have the ideal fluid handling solution for all your vineyard and field needs with our comprehensive range of chemical-resistant hoses for pesticides.

SERIE 3 PUR SN



**Properties and Applications**  
Wall made from Ether-based Polyurethane for increased resistance to microbes, hydrolysis and chemicals. Used mainly in crop sprayer machines for vineyards, in black color for increased resistance to UV.  
**Structure**  
Polyether-Polyurethane, black, with rigid PVC helix, gray  
**Temperature Resistance**  
-30°C up to + 80°C

VACUFLEX® K1H-PU-MI



**Properties and Applications**  
Flexible hose with a PU coated Steel wire reinforcement bonded to the inner PU wall, allowing an easier bending. Ether-based Polyurethane wall of 0.5 mm resistant to microbes and hydrolysis and high resistance to chemicals.  
**Structure**  
Polyether-Polyurethane, black with Polyurethane-coated spring steel wire  
**Temperature Resistance**  
-40°C up to + 90°C

SMARTFLEX® 0.7



**Properties and Applications**  
Medium weight and flexible Polyurethane hose with 0.7 mm wall thickness, smooth bore, hydrolysis and microbe resistant, antistatic (R<10<sup>9</sup> Ohm), flame retardant. Good pressure resistance.  
**Structure**  
Polyether-Polyurethane, transparent with spring steel wire  
**Temperature Resistance**  
-40°C up to + 100°C (short term up to + 125°C)

SMARTFLEX® 1.0



**Properties and Applications**  
Medium weight and flexible Polyurethane hose with 1.0 mm wall thickness, smooth bore, hydrolysis and microbe resistant, antistatic (R<10<sup>9</sup> Ohm), flame retardant. Good pressure resistance.  
**Structure**  
Polyether-Polyurethane, transparent with spring steel wire  
**Temperature Resistance**  
-40°C up to + 100°C (short term up to + 125°C)

APDatec 810



**Properties and Applications**  
Multilayer PVC pressure hose for pesticide, fungicide, fertilize solutions and mineral oils for agriculture spraying. 20 bar working pressure/60 bar burst pressure.  
**Structure**  
Soft-PVC, black with Polyester fabric, white  
**Temperature Resistance**  
-20°C up to + 65°C

APDatec 82



**Properties and Applications**  
Multilayer PVC pressure hose for pesticide, fungicide, fertilize solutions and mineral oils for agriculture spraying. 40 bar working pressure/120 bar burst pressure.  
**Structure**  
Soft-PVC, blue outer / black inner with Polyester fabric, white  
**Temperature Resistance**  
-20°C up to + 65°C



# HARVESTING

Ducting hoses are indispensable components of modern harvesting machinery for efficient transfer of air and harvested materials or byproducts throughout the machine. In a harsh agricultural environment, these flexible components are engineered for maximum durability, abrasion resistance, and safety.

VACUFLEX® K1Z-MSC-PU



**Properties and Applications**  
Highly abrasive resistant hose thanks to a 0.8 mm wall thickness. Suitable for the transfer of cotton lint or some grain/seed varieties, using suction or blowing to move them from one processing area (like the header or threshing unit) to the grain tank or other collection points.  
**Structure**  
Polyether-Polyurethane, transparent with spring steel wire  
**Temperature Resistance**  
-40°C up to +90°C (short term up to +125°C)  
**Optional**  
K1Z-SC-PU: With wall thickness 1.0 mm

VACUFLEX® K1H-PU-MI



**Properties and Applications**  
Flexible hose with a PU coated steel wire reinforcement bonded to the inner PU wall, allowing an easier bending. Ether-based Polyurethane wall of 0.5 mm resistant to microbes and hydrolysis and high resistance to chemicals. Suitable for dust and chaff extraction, routing material and excess air away from the crop flow or the engine compartment.  
**Structure**  
Polyether-Polyurethane, black with Polyurethane-coated spring steel wire  
**Temperature Resistance**  
-40°C up to + 90°C

FLEXADUX® PU 1.4 ECO



**Properties and Applications**  
Medium weight and flexible Polyether-Polyurethane ducting with smooth inner surface. The ideal solution for a number of applications in agricultural industry, including animal feeding, grain suction, tea and tobacco processing. Hydrolysis and microbe resistant for increased resistance in humid environments.  
**Structure**  
Polyether-Polyurethane, transparent with spring steel wire  
**Temperature Resistance**  
-40°C up to + 100°C (short term up to + 125°C)  
**Optional**  
With wall thickness of 0.7 | 2.0 | 2.5 mm

VACUFLEX® K1H-A



**Properties and Applications**  
Flexible hose with a PVC coated steel wire reinforcement bonded to the inner antistatic PVC wall, allowing an easier bending. PVC wall of 0.8 mm. Suitable for light dust and chaff extraction, routing material and excess air away from the crop flow or the engine compartment.  
**Structure**  
PVC antistatic, black with PVC-coated spring steel wire  
**Temperature Resistance**  
-10°C up to +70°C  
**Optional**  
K1H: With standard PVC wall



# CONVEYING, MIXING & FEEDING

Flexible hoses are indispensable in modern agriculture, for conveying, mixing, and feeding various materials across the farm, durable and abrasion resistant they can handle granular feeds, fertilizers, and abrasive grains, while also being chemically inert to resist corrosive liquid fertilizers and chemicals. Their inherent flexibility allows for easy routing on mobile equipment and connection between storage tanks, mixers, pumps, and final delivery points, ensuring efficient, non-stop material flow for grain transfer, livestock feeding, and nutrient management.

APDatec 120



Properties and Applications

Specialized hose engineered for the pneumatic suction and transfer of dry, abrasive animal feed, grain, and pellets in agricultural settings, combining the properties of a PVC suction hose with the abrasion resistance of polyurethane hoses thanks to the Polyurethane lining. Smooth inner bore for optimal flow, and a grounding wire for safely dissipating the static electricity generated during dry material transfer, thus mitigating the risk of dust explosions.

**Structure**  
PVC transparent, with a Polyester-Polyurethane inner layer and rigid PVC helix - copper wire for grounding

**Temperature Resistance**  
- 5°C up to + 60°C

**Optional**  
APDatec 248 ProSlide PU: Heavy duty inner PU lining of 2 mm

SMOOTHFLEXX PU MHR AS+



Properties and Applications

Premium flexible hose constructed with a Polyurethane (PU) wall reinforced by a rigid PVC helix. Designed for the light suction and transport of abrasive dry bulk media - fine granules, powders, or chips - and gases. Permanent anti-static wall through the PU material itself, supplemented by an embedded grounding wire to ensure safe, measurable static dissipation.

**Structure**  
Polyether-Polyurethane, transparent, with rigid PVC helix, black and antistatic wire for grounding

**Temperature Resistance**  
- 30°C up to + 80°C

**Optional**  
SMOOTHFLEXX X-TRA PU MHR AS+: With wall thickness 0.8 - 1.2 mm

SMOOTHFLEXX PU FOOD ANT



Properties and Applications

Designed for conveying dry, granular, or powdered food-grade media (such as specialized animal feeds, grains, and food products). Food grade Polyurethane (PU), according to EU 10/2011. Abrasion resistant with a very smooth internal bore to maximize flow rate and antistatic wire to dissipating the static electricity build up.

**Structure**  
Polyether-Polyurethane, transparent, with rigid PVC helix, ivory and antistatic wire for grounding

**Temperature Resistance**  
- 30°C up to + 80°C

**Optional**  
SMOOTHFLEXX X-TRA PU FOOD: With wall thickness 0.8 - 1.2 mm

FLEXADUX® P 7 M PU Food



Properties and Applications

Designed for conveying dry, granular, or powdered food-grade media (such as specialized animal feeds, grains, and food products). Food grade Polyurethane (PU), according to EU 10/2011. Abrasion resistant wall of 1.4 mm thickness, smooth, steel wire can be used for grounding to dissipating the static electricity build up.

**Structure**  
Polyether-Polyurethane, transparent with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C (short term up to + 125°C)

**Optional**  
FLEXADUX® P 7 LM PU Food: With wall thickness 0.7 mm



SMARTFLEX® 0.7



Properties and Applications

Medium weight and flexible Polyurethane hose with 0.7 mm wall thickness, smooth bore, for the suction and transport of abrasive animal feed, pellets, and grain. PU wall combining both anti-static and flame-retardant properties ensure compliance with rigorous safety standards (e.g., ATEX), making it essential for pneumatic conveying systems where explosive dust clouds or potential ignition sources are a concern.

**Structure**  
Polyether-Polyurethane, transparent with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C (short term up to + 125°C)

SMARTFLEX® 1.0



Properties and Applications

Medium weight and flexible Polyurethane hose with 1.0 mm wall thickness, smooth bore, for the suction and transport of abrasive animal feed, pellets, and grain. PU wall combining both anti-static and flame-retardant properties ensure compliance with rigorous safety standards (e.g., ATEX), making it essential for pneumatic conveying systems where explosive dust clouds or potential ignition sources are a concern.

**Structure**  
Polyether-Polyurethane, transparent with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C (short term up to + 125°C)

SMARTFLEX® 1.4



Properties and Applications

Medium weight and flexible Polyurethane hose with 1.4 mm wall thickness, smooth bore, for the suction and transport of abrasive animal feed, pellets, and grain. PU wall combining both anti-static and flame-retardant properties ensure compliance with rigorous safety standards (e.g., ATEX), making it essential for pneumatic conveying systems where explosive dust clouds or potential ignition sources are a concern.

**Structure**  
Polyether-Polyurethane, transparent with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C (short term up to + 125°C)

SMARTFLEX® 2.0



Properties and Applications

Heavy weight and flexible Polyurethane hose with an extremely robust 2.0 mm wall, smooth bore, for the suction and transport of abrasive animal feed, pellets, and grain. PU wall combining both anti-static and flame-retardant properties ensure compliance with rigorous safety standards (e.g., ATEX), making it essential for pneumatic conveying systems where explosive dust clouds or potential ignition sources are a concern.

**Structure**  
Polyether-Polyurethane, transparent with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C (short term up to + 125°C)



# BIOGAS TECHNOLOGY

Livestock waste constitutes the most used basis for biogas generation. Through controlled decomposition it can yield good quantities of bio-methane. It is an environmentally friendly way to produce energy and a way to reduce the production of greenhouse gases.



## FEEDING & TRANSFERRING SLURRY

SPEARFLEXX OFR NORDIC



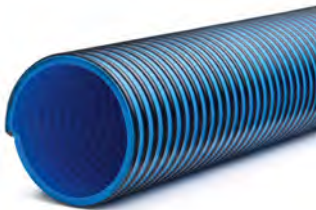
**Properties and Applications**  
Suitable for medium duty suction and delivery of liquids and low abrasion materials compatible with PVC NBR in industry, agriculture, irrigation, water supply, tanker trucks. Increased flexibility coming from the unique spiral design and positioning, allowing also for an easy slide and drag during manipulation while protecting the wall. PVC NBR wall material allows a resistance to extreme low temperatures. OFR formulation allows increased resistance and reduced migration during contact with fat and natural or mineral oils.

**Structure**  
Soft-PVC/NBR compound, black, with rigid PVC helix, black

**Temperature Resistance**  
- 40°C up to + 50°C

**Optional**  
**DOUBLEFLEXX® OFR MED:** With temperature resistance - 25°C up to + 60°C

APDatec 142



**Properties and Applications**  
Super elastic medium duty suction hose for filling slurry tanks. The corrugated surface allows increased flexibility even in low temperature conditions and ease when dragging.

**Structure**  
Soft-PVC, blue with rigid PVC helix, black

**Temperature Resistance**  
- 20°C up to + 60°C

APDatec 144



**Properties and Applications**  
Medium duty hose with a PVC/NBR blended wall for an increased flexibility and resistance to extreme low temperatures. Slightly corrugated surface for easy installation, ideal as filler hose on slurry tank systems or as supply hose to slurry dribble bars.

**Structure**  
PVC-NBR compound, silver with rigid PVC helix, white

**Temperature Resistance**  
- 40°C up to + 50°C

**Optional**  
With external spiral for increased abrasion protection when dragging

DOUBLEFLEXX® POLAR OFR



**Properties and Applications**  
Heavy duty suction and delivery hose featuring a patented double spiral construction for increased vacuum resistance. Ideal for the transfer of thicker mixtures like slurry in the supply of biogas installations. The patented double spiral, provides a full protection of the wall of the hose to puncture and dragging. The surface slides perfectly on the floor thanks the external spiral that allows to the operators an easy manipulation of the hoses in use. NBR additive and OFR formulation allow for increased flexibility and resistance to extreme cold temperature, oils and fat.

**Structure**  
Soft-PVC, black with rigid PVC helix, white, and a second external helix, blue

**Temperature Resistance**  
- 40°C up to + 180°C

**Optional**  
**DOUBLEFLEXX® OFR MED:** With temperature resistance - 25°C up to + 60°C

## AIR SUPPORT & EXHAUST

FLEXADUX® P2 HL



**Properties and Applications**  
Light weight and flexible spiral hose made of PVC-coated polyester fabric for biogas plants, transporting support air, balancing air inside membrane systems, very good chemical resistance, antistatic (R<10<sup>9</sup> Ohm), flame retardant according to DIN 4102 B1, conform to TRAS 120.

**Structure**  
PVC-coated Polyester fabric, black with spring steel wire

**Temperature Resistance**  
- 40°C up to + 80°C

FLEXADUX® P2 SP-SE



**Properties and Applications**  
Light weight and flexible spiral hose made of TPE -coated polyester fabric flame retardant according to DIN 4102 B1. Very good chemical resistance to acid, alkali and solvent vapors, good flexibility, good UV and ozone resistance, excellent rot resistance.

**Structure**  
Coated fabrics / TPE coated polyester fabric, black / jet black (similar RAL 9005), steel wire / spring steel wire / not coated / copper plated

**Temperature Resistance**  
-40°C up to + 150°C

SERIE 6 PUR M1



**Properties and Applications**  
Light weight flexible ducting made out of polyurethane-coated polyester fabric, fire-resistant according to M1 norm, reinforced with spring steel wire for grounding, halogen and softener free. Designed for suction of very hot air, dust, oil and petrol fumes. Excellent flexibility, good abrasion resistance, to be used where fire resistance is required.

**Structure**  
Polyurethane-coated polyester fabric, with spring steel wire

**Temperature Resistance**  
- 40°C up to + 180°C

SMARTFLEX® 0.4



**Properties and Applications**  
Light weight and flexible spiral hose made of flame-retardant, permanently antistatic (R<10<sup>9</sup> Ohm), hydrolysis and microbe resistance PU wall. Excellent flexibility, good oil and petrol resistance. Good chemical resistance to the corrosive elements found in anaerobic digestion (AD) materials.

**Structure**  
Polyether-Polyurethane, transparent with spring steel wire

**Temperature Resistance**  
- 40°C up to + 100°C (short term up to + 125°C)



# VENTILATION HOSES

Ventilation hoses for controlled environments (more commonly called ducting or climate hoses) are critical components in installations such as greenhouses, vertical farms, livestock farming, drying or heating tents, as well as cabin ventilation in the tractor.

FLEXADUX® P2 A 1000



**Properties and Applications**  
Light weight PVC hose for ventilation in livestock farming or replenishing of carbon dioxide and air circulation in closed areas where air exchange is required, also suitable for drying and heating of tents or mobile constructions.  
**Structure**  
PVC-coated polyester fabric, gray with spring steel wire  
**Temperature Resistance**  
- 30°C up to + 80°C  
(short-term up to + 100°C)

VACUFLEX® K1H-TPR



**Properties and Applications**  
Air intake hose for tractors, ventilation hose at higher temperatures, also available with overmolded cuffs for direct fitting to air intake.  
**Structure**  
TPR (Thermoplastic rubber), black with Polypropylene-coated spring steel wire  
**Temperature Resistance**  
- 40°C up to + 135°C  
(short term up to + 150°C)  
**Optional**  
Flame-retardant according to UL 94 V-0

SMARTFLEX® 0.4

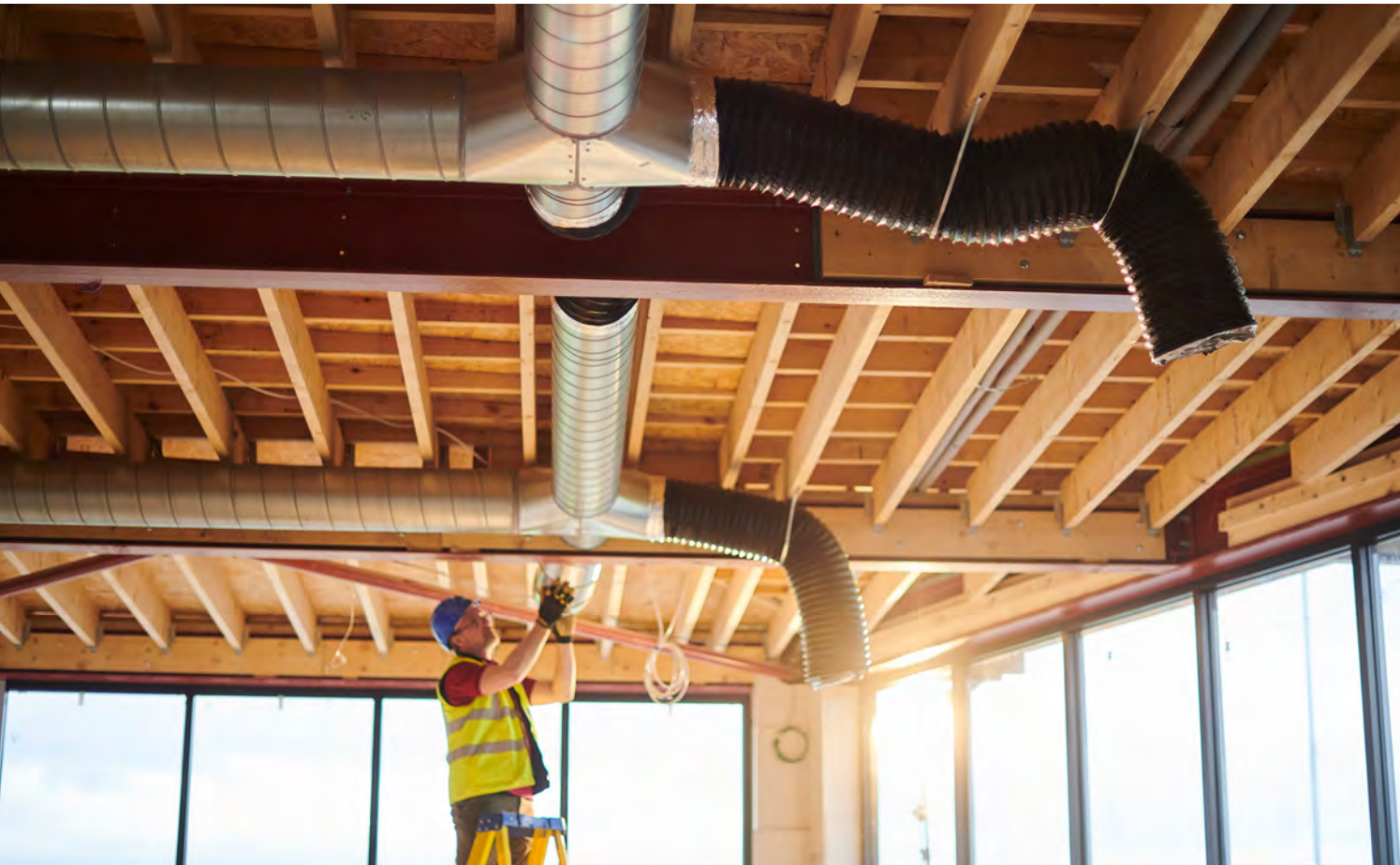


**Properties and Applications**  
Light weight and flexible spiral hose made of flame-retardant, permanently antistatic (R<10<sup>9</sup> Ohm), hydrolysis and microbe resistance PU wall. Excellent flexibility, good oil and petrol resistance. Good chemical resistance to the corrosive elements found in anaerobic digestion (AD) materials.  
**Structure**  
Polyether-Polyurethane, transparent with spring steel wire  
**Temperature Resistance**  
- 40°C up to + 100°C  
(short term up to + 125°C)

FLEXADUX® P1 N light grey



**Properties and Applications**  
Light weight and very flexible PVC ducting for ventilation in livestock farming as well as the supply of air to dryers and cyclone systems in seeding and fertilizing machines.  
**Structure**  
Soft-PVC, light grey with spring steel wire  
**Temperature Resistance**  
0°C up to + 70°C



# MILK FARMS

Specialized and certified hoses according to EU 10/2011 suitable for transfer of Milk (D1 stimulant) for use in milking machines as well as transfer of raw milk from the milking parlor to the bulk tank, or from the farm tank to the collection tanker.

Lactolit 842





**Properties and Applications**  
Light weight and flexible single layer hose for the transport of air and liquid food, suitable for transfer of alcohol up to 50% long-term and milk in liquid form – can also be used for milking machines, ortho-phthalate-free.

**Structure**  
Soft PVC, transparent

**Temperature Resistance**  
- 20°C up to + 65°C

Lactoflex 823



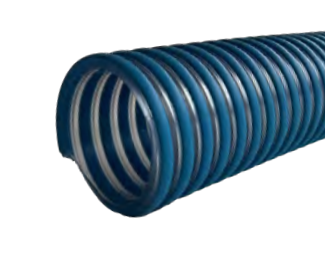


**Properties and Applications**  
Light weight and flexible pressure hose with working pressure up to 20 bar. Wall material in compliance for transport of liquid food including milk and alcohol up to 50%, ortho-phthalate-free.

**Structure**  
Soft PVC, transparent with Polyester yarn reinforcement

**Temperature Resistance**  
- 20°C up to + 65°C

SPEARFLEXX MILK



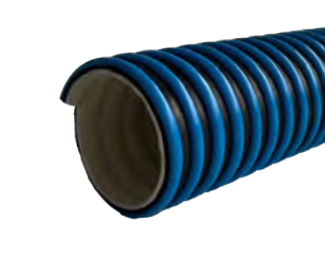


**Properties and Applications**  
Suitable for medium duty suction and delivery of food grade liquids and low abrasion materials compatible with PVC. Increased flexibility coming from the unique spiral design and positioning, allowing also for an easy slide and drag during manipulation while protecting the wall. Food grade PVC wall, according to EU 10/2011 A,B,C,D1 with special inner lining to protect hose integrity during the CIT process cleaning.

**Structure**  
PVC transparent, with a inner lining and rigid PVC helix

**Temperature Resistance**  
- 20°C up to + 60°C (short term up to + 100°C)

DAIRYFLEXX EPDM





**Properties and Applications**  
Specially designed for Milk Trucks. Corrugated external surface allows for good flexibility and dragging without damaging of the wall. PVC free, ortho-phthalate-free and Bis-phenol-A free. Complies to EU 1935/2004 and for stimulant D1. Temperature from - 20°C to + 60°C (withstands up to + 100°C for sterilization processes at low pressure and for short time intervals). Textile reinforcement provides an extended pressure resistance compared to standard spiral reinforced hoses.

**Structure**  
EPDM rubber, with polyethylene spiral and textile reinforcement

**Temperature Resistance**  
- 20°C up to + 60°C (short term up to + 100°C)



# ALL ROUNDERS

Multipurpose hoses while very basic, they are essential tools in agricultural water management, offering farmers a single, durable solution for various applications.

APDatec 10





**Properties and Applications**  
Light duty, multipurpose PVC suction and delivery hose for a number of applications, including pumping, irrigation dewatering, slurry tanks etc.

**Structure**  
Soft-PVC, green transparent with rigid PVC helix, white

**Temperature Resistance**  
- 5°C up to + 60°C

**Optional**  
Green or yellow transparent or clear wall, also as food grade version according the EU 10/2011

OnePressGermany 258





**Properties and Applications**  
Flexible and robust compressed air hose with highly tear-resistant fabric, smooth bore and cover for easy connection or pressing, resistant against mineral oil containing compressed air, kink and abrasion-resistant, weather-resistant with excellent low temperature flexibility, also suitable for rough operating conditions in the field and in industrial applications.

**Structure**  
Styrene Butadiene Rubber (SBR), yellow with blue stripe, with polyester fabric, white

**Temperature Resistance**  
- 20°C up to + 100°C

**Optional**  
Black color with yellow stripe without or with fully integrated Euro couplings

APDatec 81





**Properties and Applications**  
Multi-layer PVC pressure hose with highly tear-resistant polyester fabric, available in variable outer diameters for the same inner diameters to ensure a perfect fit with connectors and fittings.

**Structure**  
Soft-PVC, transparent with Polyester fabric, white

**Temperature Resistance**  
- 20°C up to + 65°C

**Optional**  
With transparent colored wall

APDatec 840





**Properties and Applications**  
Flexible single layer hose made of Soft-PVC for a number of applications including seeding machines, fertilizers or sprayers. Can also be used as a level hose for storage tanks or for light pressure applications. Available in variable outer diameters for the same inner diameters to ensure a perfect fit with connectors and fittings.

**Structure**  
Soft-PVC, transparent

**Temperature Resistance**  
- 20°C up to + 65°C

**Optional**  
Transparent colored wall or in oil resistant version



# ACCESSORIES

Accessories to connect your hose to your equipment – directly from our stock. Additionally, we can offer customized solutions for ready to fit hoses coming over molded with connection cuffs, couplings or other accessories.



## WATER HOSE ACCESSORIES

## CUSTOMISED SOLUTIONS

## PLASTIC FABRIC EQUIPMENT

## IBC CONTAINER ACCESSORIES



Large selection of couplings and clamps, fittings, connectors, water guns and accessories to connect hoses to your systems.



Customized solutions can be provided with over molded or screwed on cuffs for direct fitting of the hoses on the machinery.



Irrigation bag for long-term Irrigation of trees, heavy pack sack for universal applications and very robust plastic tarpaulins.



Whether standard click locks or claw couplings or ball valves or outlet spigots. We have an extensive range of accessories for IBC adapters.

# ACCESSORIES

## CUFFS & HOSE CLAMPS

Different cuffs, loose, screwed on or firmly welded to the hose and of course a range of different clamps to fix the hoses to the connectors.



## COUPLINGS

For a quick and efficient connection without twisting and screwing and the avoidance of damage to threads caused by over tightening.



Storz Couplings

Bauer Couplings



Italian / Rotula Couplings



MEMBERS OF SCHAUENBURG HOSE TECHNOLOGY GROUP



[www.schauenburg-hose.com](http://www.schauenburg-hose.com)