

Guidelines for use of the Cordenka® Growth 350 AC

Twine for the production of peppers with fruit weights of up to about 250 g

Product description

1. Cordenka® Growth 350 AC is made of rayon. Rayon is a cellulose filament material made from wood pulp and based on sustainable forestry.
2. Cordenka® Growth 350 AC is biodegradable and can be chopped and composted together with the harvested plant stems at the end of the growing season.
3. With the use of Cordenka® Growth, the entry of microplastics into the environment through twines in pepper cultivation is reliably prevented.

Approved use - testing

1. Cordenka® Growth has been developed for growing pepper in highly productive glass greenhouses and is approved for soilless cultivation on substrate under controlled temperature, humidity and crop protection conditions.
2. Cordenka® Growth 350 AC has an average breaking strength of approx. 36 kg ex works and can thus support pepper plants with fruit weights of up to about 250 g over one growing season.
3. When Cordenka® Growth is used in conditions that may encourage the spread of fungal organisms, or other cellulose attacking organisms, especially those growing pepper in soil, or organic farming conditions, the strength of Cordenka® Growth cords may decrease to the point where they break.
4. Our application guideline for approved use is based on our current state of knowledge and does not constitute an application guarantee for our product. Due to the range of possible different application conditions, the user must test the suitability of the material for his/her specific application on his/her own responsibility under the cultivation conditions on-site. Cordenka excludes any liability in this respect.
5. For pepper cultivation, we recommend the direct use of Cordenka® Growth cord supply spools with the twine wound-up on cardboard tubes. The cord spools have outside winding. For compatibility of outside winding with common cutting equipment, Cordenka has developed an easy method, which is explained in detail below (see section "Cordenka® Growth cord spool adaption to pepper twine cutting").

Acclimatization



We recommend attaching the Cordenka® Growth cord to the crop wire at least 24 hours before tying the cord to the plant. This allows the cord to acclimatize to the greenhouse conditions, especially to the prevailing humidity in the greenhouse. The free-hanging cord will usually shrink by a few centimeters during this time due to moisture absorption

General influence of moisture

With increasing moisture, the tensile strength decreases and the cord slightly shrinks.

- Normal greenhouse climate changes are not a problem due to the strength reserves of the cord.
- However, if the cord becomes really wet, e.g. due to irrigation, wetting with spray liquid, dripping condensation water, or similar, it will continue to shrink to a certain extent as described above.
- This is to be taken into account in cultivation work, see section "Cultivation work".

Connection of cord and plant

- To attach the cord to the crop wire, take care to use a knot with a strong hold on the wire. Cordenka recommends the following knots:
 - a. Cordenka pepper knot ([YouTube](#)) 
 - b. Slipped clove hitch ([YouTube](#)) 
- Options for the initial connection of Cordenka® Growth cord and plant:
 - a. Place a clip made from compostable molded material at the bottom of the plant stem and connect the twine to the clip under moderate tension (please take care that you use clips that ensure good hold on the twine).
 - b. After having connected the cord to the crop wire, connect the loose end to the metal parts of the substrate gutter with a knot, while creating a moderately high level of cord tension. The connection of the cord and gutter should be done in such a way that the cord does not get wet during cultivation. Use the cord stretched in this way by wrapping the young plants as well as the subsequent plant growth with it. If necessary, support the connection of young plant and cord by using compostable clips.
 - We do not recommend connecting the cords by knots to the plant stems directly.

Cultivation work

- During plant growth, we recommend tying in new growth via winding with the Cordenka® Growth cord (typically about one turn every second week).
- Normally during the season, due to the cord's wet shrinkage tendency, no cord re-tensioning is necessary.

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WARNING: Lateral forces, e.g. by contact with sharp edges, damage the cord and must be avoided. The cord is correspondingly sensitive when defoliating the plants with the knife and when harvesting the peppers with the knife or scissors. Careful workmanship, avoiding contact between the knife or scissors and the cord, is necessary here.

Cordenka® Growth cord spool adaption to pepper twine cutting

1. Cordenka® Growth is supplied on cylindrical spools and wound on cardboard tubes (the cardboard tubes are made from recycling paper and can be utilized through waste paper collection again).
2. During fast pull-off from the spool, the cord will form a so-called balloon due to centrifugal forces. A balloon limiter must control shape and size of this balloon.
3. A foam pad fundament placed underneath the spool and a simple clean bucket with a lid and a smooth hole in the latter enable easy use of Cordenka® Growth with common pepper twine cutting machines. Cordenka has developed an adapter kit to facilitate Cordenka® Growth's cutting machine compatibility with a focus on state-of-the-art STEENKS String Machine T 0101. Your Cordenka® Growth supply partner will be able to provide you with solutions.
4. A few meters before the end of the spool, a noticeable change in the cord's twist level indicates the end of the current spool and the necessity to change to the next one.

Cordenka liability

Cordenka guarantees a supply of high quality products according to the specification of Cordenka® Growth 350 AC. In the event of a deviation of the product from the specified quality, Cordenka shall be liable for rectification, rescission or reduction at Cordenka's discretion. Any further liability is excluded.

Successful use of Cordenka Growth cord in pepper cultivation is the sole responsibility of the user and is subject to proper application in accordance with the above instructions.

Cordenka accepts no liability for damage resulting from a lack of suitability for or failure of the cord in the use intended by the user in the individual case. In particular, Cordenka shall not be liable for consequential damages such as loss of production or loss of profit or interest.

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