

PROBLEMS ENCOUNTERED IN TOMATO CULTIVATION AND SOLUTIONS WITH 2000 TARIM PRODUCTS (FOR WINTER CULTIVARS)

(Planting time in autumn until summer.
For planting from moderate, slightly cooler to hot temperatures)

SEEDLING STAGE

PROBLEM 1

Seedling dipping. Dip seedlings into water with 70-80 cc SupKor-Cu per 20 liters.

(GRAFTED) Planting rules must be followed in order to avoid disease transmission from grafting sites, which must remain above the soil level. Additionally, in order to prevent disease transmission and to open the veins;



DRIP IRRIGATION SYSTEM (1000 m2)

CHEMICAL + FOLKAR-K 1-2 LT or SUPKOR-Cu.....1 LT

FOR PROBLEM 1, APPLICATION FROM TOP

FOLKAR-K 200 cc/100 LT of water + PROLIUM 200-300 cc/100 LT of water or SUPKORCU..... 200-250 cc/100 LT of water

PROBLEM 2

If there is an excessive longitudinal growth of the plant stem, make sure to carry out fertilization frequently depending on the variety and the greenhouse conditions.

If the plant is thin and growing fast;

DRIP IRRIGATION SYSTEM (1000 m2)

FULLBAS 69 1 KG + RATOON 15 2,5 KG or OrgAPEX-NK 2 LT
0-30-40 2-3 KG + RATOON 15 2,5 KG
0-30-40 2-3 KG +

If it is growing normally or thick;

DRIP IRRIGATION SYSTEM (1000 m2)

DURAN 2,5 LT + 0-30-40 2 KG or DURAN 20 2,5 LT
FOLKAR-K 1 LT + FULLBASS 69 1 KG
OrgAPEX-NK 2 LT + 0-30-40 2-3 KG

FOR PROBLEM 2, APPLICATION FROM TOP

MAXIFORTE150-200 GR/100 LT of water + FOLKAR-K 250-300 cc/100 LT of water or FULLBASS 69.....200-250 GR/100 LT of water
2 Application every 5 days

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FLOWERING STAGE

PROBLEM 1

If the pedicles are not fully formed, the stems of those which are formed turn yellow and there is dropping due to shock, inhibitors, hormones and similar reasons (abscisic acid accumulation). At the same time, in cases where the flowers may bloom early before the root and vegetative part are ready for pollination (inhibitor, etc.).

DRIP IRRIGATION SYSTEM (1000 m2)

CALVIN 2-3 LT
+
NOABSES 1-2 LT
+
CALCIUM NITRATE 3-4 KG
+
PROFER 6 (Fe).....150-200 GR

After
2 days

ZENITH 1-2 LT
+
NOABSES 1 LT
+
20-20-20 veya 18-18-18 5 KG
+
OrgAPEX-NK 2 LT

FOR PROBLEM 1, APPLICATION FROM TOP

NOABSES 200 cc/100 LT of water
+
FULL ENERGY 7 100 cc/100 LT of water
+
ZENITH.....150 cc/100 LT of water



PROBLEM 2

If the plant is thin and has rapid longitudinal growth;

DRIP IRRIGATION SYSTEM (1000 m2)

FULLBASS 69 1 KG
+
RATOON 15 2,5 KG
+
0-30-40 2 KG
+
ZENITH 1-2 LT

or

FULLBASS 69 1 KG
+
RATOON 15 2,5 KG
+
OrgAPEX-NK 2-2,5 LT
+
ZENITH 1-2 LT

If the plant is normal or growing a little thick;

DRIP IRRIGATION SYSTEM (1000 m2)

DURAN 2,5 LT
+
0-30-40 3-4 KG
+
FOLKAR-K 1 LT

or

DURAN 2,5 LT
+
FULLBASS 69 1-2 KG
+
0-30-40 3-4 KG

FOR PROBLEM 2, APPLICATION FROM TOP

If the plant is thin and has rapid longitudinal growth;

MAXÍFORTE 100-150 GR/100 LT of water
+
TRANS-POL 150 GR/100 LT of water

or

MAXÍFORTE 150-200 GR/100 LT of water
+
PROMAX COMBI 100 GR/100 LT of water
+
FULL ENERGY 7 150-300 cc/100 LT of water

If the plant is normal or growing a little thick;

MAXÍFORTE 200 GR/100 LT of water
+
FOLKAR-K 250-300 cc/100 LT of water

or

FULLBASS 69 200-250 GR/100LT of water
+
FOLKAR-K 250-300 cc/100 LT of water

PROBLEM 3

If there is delay in flowering, shortage of pollen or poor development, pollination problems;

DRIP IRRIGATION SYSTEM (1000 m²)

18-18-18 3 KG
+
0-30-40 3-4 KG
+
TRANS-POL 1KG

or

TRANS-POL 1 KG
+
FULLBASS 69 1-2 KG
+
0-30-40 4 KG

FOR PROBLEM 1, APPLICATION FROM TOP

NOABSES 150 cc/100 LT of water
+
TRANS-POL 150 GR/100 LT of water

or

MAXIFORTE 100-150 GR/100 LT of water
+
TRANS-POL 150 GR/100 LT of water



PROBLEM 4

Thinning, excessive longitudinal growth, breakage or twisting (distortion) in flower-fruit stem

DRIP IRRIGATION SYSTEM (1000 m²)

NOABSES 1 LT
+
TRANS-POL 1 KG
+
0-30-40 5-6 KG
+
OrgAPEX-NK 2-3 LT

FOR PROBLEM 4, APPLICATION FROM TOP

NOABSES 150-200 cc/100 LT of water
+
TRANS-POL 150 GR/100 LT of water

or

FULLBASS 69 200 GR/100 LT of water

As it facilitates the pollen formation, this mixture also speeds up the feeding (working) of the bee.

PROBLEM 5

(For flowering and fruiting stages) Leaf blades turning slightly yellow during the cold period

Cause: Increased carbohydrate accumulation (cold-dry weather), chemical stress, water stress, weakening of root development and activity (Prolongation of root development period)

1. Application

DRIP IRRIGATION SYSTEM (1000 m²)

NOABSES 1-1,5 LT
+
ZENITH 2 LT
+
18-18-18 6 KG
+
FULL ENERGY 7 1 LT

2. Application

DRIP IRRIGATION SYSTEM (1000 m²)

SULPHUR 3 KG
+
18-18-18 6 KG
+
MAGNESIUM SULFATE or MAGNESIUM NITRATE 2,5 KG
+
GLUKOMIX Mn-Fe 2 LT

FOR PROBLEM 5, APPLICATION FROM TOP

NOABSES 200 cc/100 LT of water
+
GLUKOMIX Mn-Fe 250 cc/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.

PROBLEM 6

(For flowering and fruiting stages) If there is calyx tip burn;

Cause: Sudden change in humidity, prolongation of root development period (capillary root hair development), excessively and incorrectly applied chemicals, etc.

DRIP IRRIGATION SYSTEM (1000 m²)

TRANS-POL 1-2 KG
+
NOABSES 1-2 LT
+
18-18-18 5-6 KG

or

CANTONE-B 2-3 LT
+
NOABSES 1-1,5 LT
+
18-18-18 6 KG

FOR PROBLEM 6, APPLICATION FROM TOP

NOABSES 200 cc/100 LT of water
+
TRANS-POL 150 GR/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.

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FRUITING STAGE

PROBLEM 1

If there is fruit drop and / or cracking;

Cause: Temperature and humidity change (air and soil), application of improper chemicals and inappropriate fertilization, nematodes, root diseases and other factors which cause plant aging (abscisic acid accumulation in the fruit stem)

DRIP IRRIGATION SYSTEM (1000 m2)

ZENITHN 2 LT
 +
 NOABSES 1-2 LT
 +
 FERTILIZER

This mixture should be given, in case of nematodes, 2-3 days before or after, and, in case of disease, 3-4 days after chemical application.

If the plant was subject to excessive watering or it is left without water for long periods and then watered;

DRIP IRRIGATION SYSTEM (1000 m2)

NOABSES 1,5-2 LT
 +
 CALVIN 4-5 LT
 +
 18-18-18 6 KG
 +
 PROFER 6 150 GR

FOR PROBLEM 4, APPLICATION FROM TOP

NOABSES 200 cc/100 LT of water
 +
 ZENITH 150 cc/100 LT of water

If there is a problem with irrigation

NOABSES 200 cc/100 LT of water
 +
 CALVIN 200-300 cc/100 LT of water



PROBLEM 2

If there are fruit deformities;

Cause: Pollination failures (insufficient pollen, unpollinated fruit), root deficiency, malnutrition, etc.

DRIP IRRIGATION SYSTEM (1000 m2)

TRANS-POL 1-1,5 KG
 +
 16-8-24 6 KG
 +
 MAXIFORTE 1 KG

or

TRANS-POL 1-2 KG
 +
 16-8-24 6 KG
 +
 FULLBASS 69 1-2 KG

In root deficiency;

DRIP IRRIGATION SYSTEM (1000 m2)

NOABSES 1,5-2 LT
 +
 ZENITH 2 LT
 +
 16-8-24 6 KG

If there are root diseases, etc. and vascular occlusion;

DRIP IRRIGATION SYSTEM (1000 m2)

NOABSES 1,1,5 LT
 +
 FOLKAR-K 1,5-2 LT
 +
 16-8-24 6 KG

or

SUPKOR-Cu 1-2 LT

FOR PROBLEM 2, APPLICATION FROM TOP

If there are pollination problems;

MAXIFORTE 150 GR/100 LT of water
 +
 TRANS-POL 125 GR/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.

If there are fruit deformities caused by nutrition;

ULTRA K30 2 LT
 +
 FULLBASS 69 1-2 KG
 +
 16-8-24 5-6 KG

PROBLEM 3

If the fruit becomes brittle;

Cause: Sudden change in humidity and temperature, improper chemical application, unbalanced irrigation and root drowning, delay in the development of capillary roots, etc.

DRIP IRRIGATION SYSTEM (1000 m2)

ZENITH 1-2 LT
 +
 NOABSES 1-1,5 LT
 +
 FULL ENERGY 7 1 LT
 +
 16-8-24 6 KG

This mixture should be applied twice with 15 days intervals.

FOR PROBLEM 3, APPLICATION FROM TOP

ZENITH 150 cc/100 LT of water
 +
 NOABSES 200 cc/100 LT of water
 +
 FULL ENERGY 7 150 cc/100 LT of water

This mixture should be applied 2 times with 1 week intervals.

PROBLEM 4

Lack of homogeneity in the development (growth) of the fruits in and between the clusters

DRIP IRRIGATION SYSTEM (1000 m2)

SULPHUR 3 KG
 +
 MAXIEND 10-7-17 5 KG
 +
 FULLBASS 69 1 KG
 +
 ZENITH 1-2 LT

or

MAXIEND 10-7-17 4-5 KG
 +
 ZENITH 1-2 LT
 +
 NOABSES 1-1,5 LT
 +
 OrgAPEX-NK 2,5 LT

FOR PROBLEM 4, APPLICATION FROM TOP

MAXIFORTE 200 GR/100 LT of water
 +
 ZENITH 150 cc/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.

PROBLEM 5

Fruit coloration problems, delay in coloration, non-uniform coloration

1. Application

DRIP IRRIGATION SYSTEM (1000 m2)

MAXIEND 10-7-17 4-5 KG
 +
 GLUKOMIX Mn-Fe 1-2 LT
 +
 6-0-49 2-3 KG

2. Application

DRIP IRRIGATION SYSTEM (1000 m2)

MAXIEND 10-7-17 4-5 KG
 +
 POTANIA-NK 2 KG
 +
 6-0-49 3-4 KG

FOR PROBLEM 5, APPLICATION FROM TOP

MAXIFORTE 200 GR/100 LT of water
 +
 ULTRA - K30 200 cc/100 LT of water or POTANIA-NK 250 GR/100 LT of water

For homogeneous coloring

MAXIFORTE 200 GR/100 LT of water
 +
 GLUKOMIX Mn-Fe 200-250 cc/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.

For fast coloring

MAXIFORTE 200 GR/100 LT of water
 +
 GOLDEN Ka.Te.Se 400-1000 cc/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.



PROBLEM 6

Yellow-red color formation, especially due to whitefly damage

DRIP IRRIGATION SYSTEM (1000 m2)

SULPHUR 3 LT
 +
 GLUKOMIX Mn-Fe 2 LT
 +
 FULL ENERGY 7 1-2 LT
 +
 16-8-24 6 KG

or

FOLKAR-K 2 LT
 +
 MAXIFORTE 1 KG
 +
 ULTRA - K30 1-2 LT

FOR PROBLEM 6, APPLICATION FROM TOP

MAXIFORTE 200 GR/100 LT of water
 +
 FOLKAR-K 250-300 cc/100 LT of water
 +
 FULL ENERGY 7 150 cc/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.

PROBLEM 7

If cracking occurs in the stem of ripe fruits;

FOR PROBLEM 3, APPLICATION FROM TOP

During periods of rapid change in the weather or irrigation conditions, apply

NOABSES 200 cc/100 LT of water
 +
 CALVÍN 300 cc / 100 LT of water
 +
 CHEMICAL



PROBLEM 8

If blossom-end rot exists;

DRIP IRRIGATION SYSTEM (1000 m2)

NOABSES 1-2 LT
 +
 CALVÍN 2-4 LT
 +
 FERTILIZER

FOR PROBLEM 7, APPLICATION FROM TOP

NOABSES 200 cc/100 LT of water
 +
 CALVÍN 300 cc/100 LT of water

This mixture should be applied 2 times with 5-6 days intervals.

PROBLEM 9

During periods of transition from cold to spring time, thinning of the apical development, dormancy, lack of fruit enlargement due to excessive fruit formation, etc.

Apply fertilizer in between walkways (POTASSIUM NITRATE 20-25 KG + CALCIUM NITRATE 10-15 KG)

Water with a light flush.

After :

DRIP IRRIGATION SYSTEM (1000 m2)

18-18-18 veya 20-20-20 6 KG
 +
 NOABSES 1,5-2 LT
 +
 ZENİTH 2 LT
 +
 OrgAPEX-NK 2,5 LT

or

SULPHUR 3 KG
 +
 NOABSES 1-2 LT
 +
 16-8-24 2 KG

FOR PROBLEM 9, APPLICATION FROM TOP

NIMBUS 52 200-250 GR/100 LT of water
 +
 FULL ENERGY 7 200 cc/100 LT of water

or

NOABSES 150 cc/100 LT of water
 +
 MAXİFORTE 150 GR/100 LT of water
 +
 PROMAX COMBI 80 GR/100 LT of water

PROBLEM 10

If there is the problem of loosening or softening in the green fruit or that which has just begun to color;

DRIP IRRIGATION SYSTEM (1000 m2)

6-0-49 6-7 KG
 +
 MAXİFORTE 1 LT
 +
 GRONZİN L7 1-2 LT

5 days
later

CALCIUM NITRATE 2-3 KG
 +
 CALVÍN 2-2,5 LT
 +
 NOABSES 1 LT
 +
 PROFER 6 (Fe) 150 GR

FOR PROBLEM 10, APPLICATION FROM TOP

MAXİFORTE 200 GR/100 LT of water
 +
 CALVÍN 250-300 cc/100 LT of water

or

NOABSES 200 cc/100 LT of water
 +
 CALVÍN 250-300 cc/100 LT of water

PROBLEM 11

Blackening in the fruit, thickening of the skin, blackening in the seed, etc.

DRIP IRRIGATION SYSTEM (1000 m2)

TRANS-POL 1 KG
+
NOABSES 1-1,5 LT
+
FERTILIZER

FOR PROBLEM 11, APPLICATION FROM TOP

If there is blackening in the fruit and / or blackened seeds, nutrient deficiency (boron), hormonal imbalance (plant adaptation to climate conditions), abscisic acid accumulation, etc.

TRANS-POL 150 GR/100 LT of water
+
NOABSES or MAXIFORTE 250 cc-200 GR/100 LT of water

If there is thickening in the fruit skin;

Cause: Disease (Bacterial, viral) or nutrient deficiency, stress

ZENITH 150 cc/100 LT of water
+
NOABSES or MAXIFORTE 200 cc veya 200 GR/100 LT of water
+
FULL ENERGY 7 200 cc/100 LT of water



PROBLEM 12

If, in grafted tomatoes (especially in double grafts), grafting sites (crotch) are contaminated with *Fusarium* sp. and there is blackening (abscisic acid accumulation) in the main root fibers due to root taking in the soil over the grafting sites;

DRIP IRRIGATION SYSTEM (1000 m2)

FOLKAR-K 1-3 LT
+
CHEMICAL

or

SUPKOR CU 1 LT
2-3
days later

NOABSES 1-2 LT
+
GLUKOMIX Mn-Fe 1 LT
+
GRONZIN L7 1-2 LT
+
FERTILIZER

PROBLEM 13

If there is contamination or possibility of contamination by *P. corrugata* in plants which have thickened and / or softened stem due to excessive use of phosphorus and organic nitrogen (organic matter), lack of fertilizer, excessive irrigation, and insufficient light;

DRIP IRRIGATION SYSTEM (1000 m2)

PROLIUM 1-3 LT
+
PROSFIT-K50 2 LT

or

SUPKOR CU 1 LT
2-3 days
later

6-0-49 6-6,5 KG
+
GRONZIN L7 1-2 LT
+
GLUKOMIX Mn-Fe 1-2 LT

FOR PROBLEM 13, APPLICATION FROM TOP

FOLKAR-K 250-300 cc/100 LT of water
+
PROLIUM 200-250 cc/100 LT of water

or

SUPKOR CU 200-250 GR/100 LT of water

This mixture should be applied 2 times with 6-7 days intervals.