



Premium Cair Peat Substrates

ENGINEERED FOR PROFESSIONAL GROWERS WORLDWIDE

A close-up photograph of a person's open palm holding a thick layer of dark brown, fibrous peat substrate. The substrate has a clumpy, organic texture. A green speech bubble is overlaid on the right side of the hand.

**The Science
Beneath Growth**

About Rise Substrates

Naturally Processed Coir for the Modern Grower

WHO WE ARE

Rise Substrates is a premium coir substrate manufacturer based in India, supplying professional growers, greenhouse operators, and distributors across Europe, North America, the Middle East, and Asia-Pacific. Every product we make is crafted from naturally processed coconut coir — washed with fresh water and sun-dried to deliver the lowest possible EC with no chemical treatment.

WHY COCO PITH?

WATER RETENTION

Holds 60–70% moisture while allowing excess to drain, keeping roots consistently hydrated without waterlogging.



AIR POROSITY

20–35% air-filled porosity delivers the oxygen roots need for fast, healthy growth and nutrient uptake.



CHEMICAL FREEDOM

Ultra-low native EC (<0.5 mS/cm) means zero salt interference — you control every nutrient from day one.



STRUCTURAL STABILITY

Resists compaction over multiple seasons, maintaining the same drainage and aeration year after year.



OUR QUALITY PROMISE



WATER WASHED

Fresh water wash removes excess salts naturally



SUN DRIED

No artificial heat — preserves natural fibre structure



ZERO CHEMICAL BUFFERS

No calcium nitrate or chemical treatment



CUSTOM BLENDS

EC, pH, pith/chip ratios configured to your crop spec



OMRI LISTED

Certified for organic cultivation programmes



ISO 9001

Quality Consistent quality across every batch, every shipment

Product Range at a Glance

Six formats — one grower need: the right substrate for every stage

GROW SLABS

Lay-flat greenhouse slabs

Production

Ready-to-plant coir slabs in UV-protected bags. The grower standard for tomato, cucumber & pepper glasshouses.



CROPS:

Tomato

Cucumber

Pepper

Roses

OPEN TOP BAGS

Individual plant bags

Production

Pre-filled coir bags for berry and soft-fruit production. Isolates plants, prevents disease spread between rows.



CROPS:

Strawberry

Blueberry

Pepper

5KG BLOCKS

Compressed bulk blocks

Bulk / Media

Compact blocks that expand to 75L. Growers and distributors mix or expand on-site for large-area coverage.



CROPS:

Herbs

Leafy Greens

Mushrooms

650G BRICKS

Retail & nursery bricks

Retail / Nursery

Small 650g bricks expanding to 8–10L. Ideal for nurseries, retail growers, and home-scale operations.



CROPS:

Seedlings

Herbs

Tomato

GROW CUBES

Propagation cubes

Propagation

100% fine coco peat propagation cubes for uniform seedling starts. Slots directly into slabs when roots are established.



CROPS:

All Crops Grafting Cuttings

DISCS & PELLETS

Seed & cutting starters

Germination

Compressed coir discs in biodegradable netting. Expand in seconds, no pot needed. Zero transplant shock.



CROPS:

Seeds

Cuttings

Plug Plants

Grow Slabs

Lay-Flat Greenhouse Production Slabs

The grower standard for commercial tomato, cucumber, pepper & rose cultivation



Tomato

Cucumber

Pepper

Roses

Eggplant



Also used in: Strawberry (tall slab), Herbs, Melon, Courgette

Key Benefits

- ▶ **Ready-to-Plant Setup** Complete planting slab in UV-protected bag. Add water, cut slits, plant immediately.
- ▶ **Long-Lasting Structure** Pith + chip blends resist compaction for 2–3 seasons of continuous cropping.
- ▶ **Maximum Yield Output** Built for high-density glasshouse rows to deliver the highest crop output per m².
- ▶ **Complete Feed Control** EC < 0.5 mS/cm — feed your exact nutrient recipe from day one, zero interference.
- ▶ **Custom Pre-Cut Options** Pre-cut planting holes, dripper holes, and drainage slits available on request.

Available Options

SIZES

- ▶ 90 × 15 × 8 cm
- ▶ 90 × 15 × 10 cm
- ▶ 90 × 15 × 12 cm
- ▶ 100 × 15/18/20 × 8/10/12 cm
- ▶ Nursery Bags: 25 × 20 × 16/18/20 cm

BLENDS:

- ▶ 100% Washed Coco Pith
- ▶ 70/30 Pith-Chip
- ▶ 50/50 Pith-Chip
- ▶ 100% Chips

BAG:

- ▶ UV-stabilized co-extruded white/black LDPE
- ▶ 2 to 3 year outdoor guarantee

CONTAINER LOAD:

- ▶ ~7,200 standard slabs per 40" HC (palletized)

TECHNICAL SPECIFICATIONS

AFP 20–25% standard 30–35% high drainage	WHC 60–70%	EC < 0.5 mS/cm (fully washed)	PH 5.5 – 6.5
MOISTURE (PACKED) < 18%	COMPOSITION Washed Coco Pith + Husk Chips	BAG PROTECTION UV LDPE 2–3 yr	CONTAINER LOAD ~7,200 slabs / 40" HC

Open Top Bags

Individual Plant Coir Containers

Preferred by strawberry, blueberry, and premium berry growers for plant isolation and drainage control



Strawberry

Blueberry

Raspberry

Bell Pepper

Herbs



Also used in: Small Tomato varieties, Cucumber (compact), Ornamentals, Cannabis

Key Benefits

- **Individual Plant Isolation** Each plant in its own bag — stops disease from spreading between plants in the row.
- **Instant Drainage** Pre-punched holes + high AFP (25–35%) drain excess water immediately — no root rot.
- **Air Pruning Roots** Promotes dense, fibrous root systems; prevents root circling and waterlogged zones.
- **Season-Long Durability** UV-stabilized LDPE bags rated 3–5 years outdoor — built for year-round production.
- **No Plastic Nursery Pots** Ready-filled, self-standing bags replace expensive rigid pots with zero setup time.

Available Options

VOLUMES:

- 2L | 5L | 10L | 15L | 20L (custom sizes available)

BLENDS:

- 50/50 Pith-Chip (best for berries) | 70/30

PITH-CHIP

- Custom mix

BAG:

- UV-stabilized white/black co-extruded LDPE — 3 to 5 year outdoor guarantee

CONTAINER LOAD

- ~15,000 bags (5L) per 40" HC

TECHNICAL SPECIFICATIONS

AFP 25–35% (exceptional aeration)	WHC 55–65%	EC < 0.5 mS/cm (washed, soft-fruit safe)	PH 5.8 – 6.8
BAG VOLUMES 2L to 20L custom available	COMPOSITION Pith + Chips 50/50 or 70/30	BAG UV LIFE 3–5 years outdoor	CONTAINER LOAD ~15,000 × 5L / 40" HC

5KG Compressed Blocks

Bulk Coco Peat Blocks for Large-Scale Growing

Each compact 5KG block expands to up to 75 litres — the most cost-efficient substrate for distributors and large growers



Tomato

Cucumber

Herbs

Leafy Greens

Mushrooms



Also used in: Cannabis, Ornamentals, Nursery production, Soil amendment blending

Key Benefits

- ▶ **Huge Growing Volume** 5KG compressed block expands to up to 75L of premium coco peat on hydration.
- ▶ **Custom Crop Recipes** Choose pith-to-chip ratio, EC level, and pH to match your specific crop programme.
- ▶ **Healthy Root Balance** Perfect balance of water retention and air space for fast, strong root development.
- ▶ **Lowest Shipping Cost** Tightly compressed blocks cut shipping volume by up to 5× compared to loose media.
- ▶ **Flexible Application** Mix on-site for beds, containers, soil amendment, or custom substrate blending.

Available Options

BLOCK WEIGHT:

- ▶ 5KG compressed (approx. 30 × 30 × 12 cm)

EXPANDED VOLUME

- ▶ up to 75 Litres per block

BLENDS

- ▶ 100% Washed Coco Pith
- ▶ 100% Washed Coco Chips
- ▶ 70/30 Mixed

EC:

- ▶ Custom washed to your target level
- pH: Adjusted to your crop requirement

PACKAGING

- ▶ Shrink-wrapped blocks on pallets or in bulk cartons

TECHNICAL SPECIFICATIONS

BLOCK WEIGHT 5KG compressed	EXPANDED VOLUME Up to 75 Litres	EC Custom washed (< 0.5 mS/cm standard)	PH 5.5 – 6.5 (custom on request)
BLENDS 100% Pith / Chips 70/30 Mixed	WHC 65–75% (pith blend)	AFP 15–20% (pith) 25–35% (chip blend)	PACKAGING Palletized / bulk cartons

650G Compact Bricks

Nursery & Retail Coco Peat Bricks

Lightweight, easy-to-handle bricks for nurseries, retail growers, and home-scale seed starting



- Seedlings
- Herbs
- Tomato (nursery)
- Peppers
- Flowers



Also used in: Home gardening, Retail grow kits, Small-scale hydroponics, Orchids

Key Benefits

- **Super Convenient Size** Lightweight and compact — extremely easy to carry, store, and handle in any nursery.
- **Fast Hydration & Swell** Expands in minutes with water to give 8–10 litres of premium organic grow media.
- **Seedling-Safe Wash** Fully washed to protect vulnerable young root systems and seed sprouts from salt stress.
- **Excellent Air & Moisture** Retains high moisture while draining excess — never waterlogged, always aerated.
- **Retail-Ready Packaging** Clean, professional packaging suitable for retail shelf display and garden centre sales.

Available Options

BLOCK WEIGHT

- 650G compressed

EXPANDED VOLUME

- 8–10 Litres per brick

GRADES

- 100% Washed Coco Pith
- 100% Washed Coco Chips
- Mixed blends

GRADE OPTIONS

- Fine (seedlings) | Medium (nursery)
- Coarse (drainage blends)

PACKAGING

- Individually shrink-wrapped or bulk carton (qty customizable)

TECHNICAL SPECIFICATIONS			
BLOCK WEIGHT 650G compressed	EXPANDED VOLUME 8–10 Litres	EC Washed < 0.5 mS/cm (standard)	PH 5.5 – 6.5
GRADES Fine / Medium / Coarse	BLENDS 100% Pith / Chips Mixed on request	WHC 65–75% (fine pith)	PACKAGING Single wrap or bulk

Grow Cubes

Coco Peat Propagation Cubes

100% uniform propagation cubes for fast rooting, grafting, and seamless transplanting into grow slabs



- Tomato
- Cucumber
- Pepper
- Roses
- All Grafted Crops



Also used in: Strawberry runners, Cannabis cuttings, Herbs, Ornamentals

Key Benefits

- **Fast Rooting & Grafting** Designed to anchor and sprout young roots at maximum speed for propagation efficiency.**100% Uniform Growth**
- Every cube behaves identically — matching seedlings across your entire propagation bench.
- **Perfect Moisture Balance** Optimal WHC (65–75%) with fast drainage — rich oxygen levels at all times.
- **Seamless Transplanting** Cubes slot directly into grow slabs or coir bags once roots are established.
- **Biodegradable Netting** Organic cellulose net decomposes naturally — no plastic removal at transplant time.

Available Options

- CUBE SIZES**
- 10 × 10 × 10 cm
 - 15 × 15 × 15 cm
 - Custom dimensions on request
- MATERIAL**
- 100% Washed Premium Fine Coco Peat Sleeve: Biodegradable cellulose netting OR UV-stabilized LDPE sleeve
- EC**
- < 0.4 mS/cm (super low — propagation grade) pH: 5.8 – 6.8
- CONTAINER LOAD**
- ~20,000 cubes (10cm) per 40ft container

TECHNICAL SPECIFICATIONS			
CUBE SIZES 10×10×10 cm 15×15×15 cm + custom	AFP 18–22% (highly breathable)	WHC 65–75%	EC < 0.4 mS/cm (propagation grade)
PH 5.8 – 6.8	MOISTURE (PACKED) < 18%	SLEEVE OPTIONS Biodeg. net / UV LDPE	CONTAINER LOAD ~20,000 × 10cm / 40ft

Discs & Pellets

Compressed Coir Seed & Cutting Starters

The easiest way to start seeds and cuttings — expand in seconds, transplant with zero root disturbance

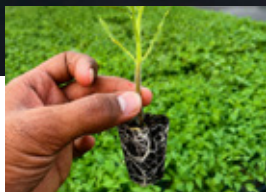


Seeds (all crops)

Cuttings

Plug Plants

Microgreens



Also used in: Cannabis clones, Orchids, Strawberry plugs, Tree seedlings

Key Benefits

- **Perfect Seedling Starts** Absolute easiest way to start seeds, cuttings, or plug plants at any scale.
- **No Pot Required** Compressed disc expands inside its own organic netting — self-contained root plug.
- **Zero Transplant Shock** Move the entire disc into a larger container when ready — roots never disturbed.
- **Even Moisture Delivery** Absorbs and holds moisture uniformly so seeds never dry out between waterings.
- **Ultra-Pure Grade** Sand and impurity content < 1% — the highest purity standard for sensitive germination.

Available Options

DIAMETERS

- 20mm | 30mm | 40mm | 50mm | 80mm | 100mm

THICKNESS

- Custom thickness available on request

MATERIAL:

- Washed Premium Fine Coco Peat + Natural Cellulose Binding

SLEEVE

- Biodegradable organic netting (decomposes naturally after transplant)

PACKAGING

- Bulk cartons — 1,000 to 5,000 discs per carton depending on size

TECHNICAL SPECIFICATIONS

DIAMETERS 20 / 30 / 40 / 50 80 / 100 mm	EXPANSION RATIO 4–5× compressed thickness	AFP 15–18% (germination optimised)	EC < 0.4 mS/cm (super low, washed)
PH 5.5 – 6.5	SAND CONTENT < 1% (ultra-pure grade)	SLEEVE MATERIAL Biodeg. organic net	PACK QUANTITY 1,000–5,000 / carton

Crop Application Guide

Which Rise Substrates product & spec fits your crop — at a glance

Who Grows With Rise Substrates Coir?

► GREENHOUSE VEGETABLE FARMS Tomato, cucumber, peppers, eggplant	► BERRY PRODUCERS Strawberry, blueberry, raspberry operations	► FLORICULTURE FARMS Cut roses, gerbera, ornamental growers
► PROPAGATION NURSERIES Plug plant, cutting, seedling producers	► HERB & LEAFY GREEN FARMS Basil, lettuce, mint, microgreens	► DISTRIBUTORS & FORMULATORS Mix-on-site, retail repacking, blending

Crop × Product Recommendation Matrix

CROP	GROW SLABS	OPEN TOP BAGS	5KG BLOCKS	650G BRICKS	GROW CUBES	DISCS
Tomato	■ 70/30 blend 90×15×10 cm	—	■ Bulk media	■ Nursery	■ Propagation	■ Seed start
Cucumber	■ 50/50 blend high drainage	—	■ Bulk media	—	■ Propagation	■ Seed start
Bell Pepper	■ 70/30 blend	■ 10–15L bags	■ Bulk media	■ Nursery	■ Propagation	■ Seed start
Strawberry	—	■ 10–15L 50/50	—	—	—	■ Plug starts
Blueberry	—	■ 15–20L chip blend	—	—	—	—
Herbs / Greens	—	■ 5–10L pith	■ Bulk media	■ Retail	—	■ Micro-seeds
Roses	■ 70/30 blend	■ 10–15L bags	—	—	■ Cuttings	■ Cuttings
All Crops	—	—	—	—	■ Universal propagatiocube	■ Universal

■ = Recommended product for this crop

— = Not typical for this application

All specs customizable on request.

Coir pith is also widely used in mushroom cultivation, cannabis production, landscaping, erosion control, animal bedding, and growing media blending. Contact us for substrate specifications for any crop or application not listed above.



READY TO GROW?

Request Your Crop-Specific Brochure

This brochure gives you our complete product range overview. For detailed substrate specifications tailored to your specific crop — EC targets, recommended blends, irrigation schedules, and seasonal adjustments — ask your Rise Substrates representative for a dedicated crop brochure.

INDIVIDUAL CROP BROCHURES AVAILABLE FOR:

→ Tomato

→ Strawberry

→ Herbs & Leafy Greens

→ Cucumber

→ Blueberry

→ Bell Pepper

→ Roses

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