



## PROFESSIONAL CATALOGUE NORTH GERMAN AND BALTIC SUBSTRATES



... and everything starts to blossom!





# PREMIUM SUBSTRATES FOR PROFESSIONAL NEEDS

Located in Oldenburg, Floragard Vertriebs-GmbH stands for a top-grade range of horticultural products in the field of peat and substrates for 100 years. Here, finest raw materials and top-quality additives provide the foundation for producing a substrate that perfectly satisfies the needs of customers and their respective crops. With a modern equipped central laboratory and an experimental greenhouse of 600 m<sup>2</sup> on the Floragard premises, the Technical Department of Horticulture stands for constant progress and development. All constituents and additives required for producing substrates in Northern German and the Baltic plants are subjected to in-depth application tests. In the course hereof, the different properties are tested, particularly the constituents' suitability for plant cultivation. Only after completion of these screening tests, they are released for use in substrate recipes. The objective of our comprehensive efforts is to guarantee the highest possible degree of crop safety and consistently high quality for users. The concept of the personally elaborated special substrates, "My Recipe" by Floragard, symbolises the individual

solution approach our employees are looking for and will find out in the field or in the Oldenburg headquarters. Our consultants, who are horticultural technicians and horticultural engineers, use their extensive know-how and expertise in the work on site.


## OUR KNOW-HOW FOR YOUR SUCCESSFUL GROWTH

















WITH PREMIUM SUBSTRATES BY FLORAGARD








# THE STANDARD SUBSTRATE PRODUCT RANGE

## PROPAGATION SUBSTRATES

Please contact your sales manager regarding a minimum order quantity! 

Substrate	Re- cipe no.	Composition	pH- value (CaCl <sub>2</sub> )	Salt content (g/l)	Structure	Deli- very form	Cultivation vessel	Application
SOWING								
Floradur® B Seed	10220	 Instant, Floraspor	5,6	0,8	superfine	Bag MB Bulk	Trays	Tray substrate with high air capacity; for vegetables and ornamental plants
Floradur® Seed S 0,8	10522		5,6	0,8	superfine	Bag MB	Trays	Tray substrate for vegetables with a particularly high water capacity
Floradur® Seed S 0,5	10591		5,6	0,5	superfine	Bag MB	Trays	Tray substrate for vegetables with low start fertilization
Floradur® Seed P	10542		5,6	1,2	fine	Bag MB	Trays	Tray substrate for vegetables with higher aeration capacity and higher start fertilization
TKS® 1 Seed	10020	 Instant, Floraspor	5,6	0,8	fine	Bag Bales MB	Trays & pots up to 11 cm	Propagation substrate with a high share of white peat; for sowing and pricking out
Floradur® B Pot Medium	10243	 Instant, Floraspor	5,6	1,2	medium	Bag MB Bulk	Pots from 7-9 cm	For small pots of approx. 7-9 cm; for bedding and balcony plants
Floradur® Seed Tobacco	10540		5,6	1,2	fine	Bag MB	Trays	Special propagation substrates for young tobacco plants
Floradur® Seed Floating Tobacco	10500	 Floraspor	5,6	0,3	fine	Bag MB	Trays	Special substrate for floating tobacco cultivation
Florabalt® Seed 1	10023	 Instant, Floraspor	5,6	0,8	fine	Bag Bales MB	Trays	Baltic propagation substrate for vegetables and ornamental plants
Florabalt® Seed 2	10030	 Instant, Floraspor	5,6	1,0	fine	Bag Bales MB	Trays	Baltic propagation substrate with higher water capacity; ideal for summer propagation
Floragard® Vermiculite K 2-3 mm	-		-	-	2-3 mm	Bag	Trays	For covering trays after propagation. Protects the seeds against light and dehydration
Floragard® Vermiculite K 2-6 mm	-		-	-	2-6 mm	Bag	Trays	For covering bigger trays after propagation. Protects the seeds against light and dehydration
STICKING								
Floradur® B Cutting	10222	 Sand, Instant, Floraspor	5,6	0,8	superfine	Bag MB	Trays	Universal sticking substrate with high aeration capacity; also for sowing
SOIL BLOCKS								
Floradur® A Block	10240		5,6	1,2	fine	Bag MB Bulk	Soil blocks	Press pots substrate for vegetable and ornamental plants; for small soil blocks
Floradur® A MT Block Hi-Cube	10250	 Sand	5,6	1,3	fine	Bag MB Bulk	Soil blocks	Press pots substrate for vegetable and ornamental plants; for large soil blocks
BASIC SUBSTRATES WITHOUT STARTER FERTILIZER								
Florabalt® Seed Base	10400	 Instant, Floraspor	5,6	0,3	fein	Ballen MB	Trays	Basic substrate in fine structure for substrate production or culture with immediate start of fertilization

Instant: wetting agent for optimal water absorption · Floraspor: trace nutrients with high iron availability · MB: Mega Bale


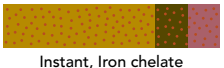

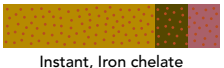

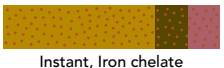
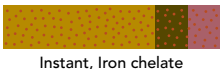






 White peat  Baltic white peat  Black peat  Perlite  Vermiculite



THE STANDARD SUBSTRATE PRODUCT RANGE

POTTING SUBSTRATES

Please contact your sales manager regarding a minimum order quantity!

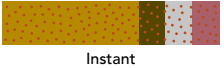
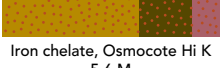
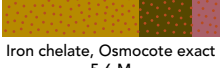
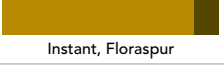
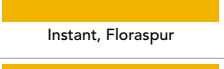
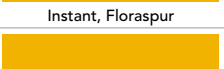







Substrate	Re- cipe no.	Composition	pH- value (CaCl <sub>2</sub> )	Salt content (g/l)	Structure	Deli- very form	Cultivation vessel	Application
POTTING IN GENERAL								
Floradur® B Pot Medium WF	126375	 Instant, Floraspur	5,6	1,2	medium	Bag MB Bulk	Pots from 7-9 cm	For small pots of approx. 7-9 cm; for bedding and balcony plants
Floradur® B Pot Clay Medium WF	126434	 Instant, Iron chelate	5,8	1,2	medium	Bag MB Bulk	Pots from 7-9 cm	Clay substrate. For small pots of approx. 7-9 cm; for bedding and balcony plants, violets, primroses
Floradur® B Pot Medium- Coarse WF	126428	 Instant, Floraspur	5,6	1,2	medium coarse	Bag MB Bulk	Pots from 8-11 cm	For medium-sized pots of approx. 8-11 cm; for bedding and balcony plants
Floradur® B Pot Clay Medium- Coarse WF	126366	 Instant, Iron chelate	5,8	1,2	medium coarse	Bag MB Bulk	Pots from 8-11 cm	Clay substrate. For medium- sized pots of approx. 8-11 cm; for bedding and balcony plants, violets, primroses
Floradur® B Pot Coarse WF	126376	 Instant, Floraspur	5,6	1,2	coarse	Bag MB Bulk	Pots > 12 cm	For large pots starting at approx. 12 cm; for bedding and balcony plants, salt- sensitive potted plants
Floradur® B Pot Clay Coarse WF	126367	 Instant, Iron chelate	5,8	1,2	coarse	Bag MB Bulk	Pots > 12 cm	Clay substrate. For large pots starting at approx. 12 cm; for bedding and balcony plants, salt-sensitive potted plants
Floradur® C Pot Clay Hi-Fert WF	126445	 Instant, Iron chelate	5,8	1,5	coarse	Bag MB Bulk	Pots > 12 cm	With high fertilizer content. For geraniums, surfinia, sweet maries and other salt-tolerant potted plants
TKS® 2 Pot Medium-Coarse	10080	 Instant, Floraspur	5,6	1,3	medium coarse	Bag MB	Pots from 8-11 cm	Universal potting substrate with high share of white peat. For medium-sized pots of approx. 8-11 cm
TKS® 2 Pot Coarse	10461	 Instant, Floraspur	5,6	1,3	coarse	Bales MB	Pots > 12 cm	For green (non-flowering) plants in pots and containers starting at approx. 12 cm.
Florabalt® Pot Medium-Coarse	10042	 Instant, Floraspur	5,6	1,2	medium coarse	Bag Bales MB	Pots from 8-11 cm	Baltic potting substrate for medium-sized pots of approx. 8-11 cm
Florabalt® Pot Clay Medium-Coarse	11045	 Instant, Floraspur	5,6	1,2	medium coarse	Bag Bales MB	Pots from 8-11 cm	Baltic potting substrate with clay for medium-sized pots of approx. 8-11 cm
Florabalt® Pot Coarse	10040	 Instant, Floraspur	5,6	1,2	coarse	Bag Bales MB	Pots > 12 cm	Baltic potting substrate for large pots starting at approx. 12 cm
Florabalt® Pot Clay Coarse	11040	 Instant, Floraspur	5,6	1,2	coarse	Bag Bales MB	Pots > 12 cm	Baltic potting substrate with clay for large pots starting at approx. 12 cm

Instant: wetting agent for optimal water absorption · Floraspur: trace nutrients with high iron availability · MB: Mega Bale


White peat    Baltic white peat    Black peat    Perlite    Clay    Florafibre woodfibres

POTTING AND CONTAINER SUBSTRATE

Please contact your sales manager regarding a minimum order quantity!

Substrate	Re- cipe no.	Composition	pH- value (CaCl <sub>2</sub> )	Salt content (g/l)	Structure	Deli- very form	Cultivation vessel	Application
POTTING SPECIAL CULTIVATION								
SEASONAL PRODUCT Floradur® Pot Cyclamen/Poinsettia WF	126446	 Instant	5,4	1,2	coarse	Bag MB Bulk	Pots > 12 cm	For cyclamen, poinsettia in pots starting at approx. 12 cm; also for red hydrangea, potted roses
SEASONAL PRODUCT Floradur® Pot Primula/Viola WF	126370	 Iron chelate, Osmocote Hi K 5-6 M	5,6	0,8	medium coarse	Bag MB Bulk	Pots from 8-11 cm	For primroses and violets. With potassium-emphasised coated slow-release fertilizers for 5-6 months
SEASONAL PRODUCT Floradur® Pot Surfinia WF	126415	 Iron chelate, Osmocote exact 5-6 M	5,4	1,2	medium coarse	Bag MB Bulk	Pots from 8-11 cm	For petunias and other balcony plants requiring a high level of nutrients. With coated slow- release fertilizers for 5-6 months
SEASONAL PRODUCT Floradur® Pot Calluna	105993	 Instant, Floraspur	4,0	0,2	coarse	Bag MB Bulk	Pots > 12 cm	Potting substrate for calluna plants; also for Gaultherias, azaleas
Florabalt® Pot Calluna	94167	 Instant, Floraspur	3,8	0,2	coarse	Bales MB	Pots > 12 cm	Potting substrate for calluna plants made of Baltic white peat; also for Gaultherias, azaleas
Florabalt® Pot Anthurium	116930	 Instant, Floraspur	5,6	1,2	mega- coarse	Bales MB	Pots > 12 cm	Special substrate for pot- ting anthurium
Florabalt® Pot Bromeliad	116933	 Instant	5,6	0,5	mega- coarse	Bales MB	Pots > 12 cm	Special substrate for pot- ting bromeliads
POTTING PERENNIAL/SHRUBS								
SEASONAL PRODUCT Floradur® Pot Perennial	105992	 Instant	5,6	1,3	coarse	Bag MB Bulk	Pots > 12 cm	Potting substrate for perennial plants; for spring and summer potting
Floradur® D Pot Container WF	126378	 Instant, Floraspur	5,6	1,2	coarse + fibrous	Bag Bales MB Bulk	Container > 1l	Container substrate for ground cover plants, shrub- bery, broad-leaved trees and shrubs and conifers
Florabalt® Pot Container	10041	 Instant, Floraspur	5,6	1,2	coarse- fibrous	Bag MB Bulk	Container > 3l	Container substrate made of Baltic white peat for nursery stock and green (non-flowering) plants
BASIC SUBSTRATES WITHOUT STARTER FERTILIZER								
Florabalt® Pot Base Medium- Coarse	107668	 Instant, Floraspur	5,8	0,3	medium coarse	Ballen MB	Töpfe von 8-11 cm	Basic substrate in medium- coarse structure for substrate production or culture with im- mediate start of fertilization
Florabalt® Pot Base Coarse	101313	 Instant, Floraspur	5,6	0,3	coarse	Bales MB	Pots > 12 cm	Basic substrate in coarse structure for substrate production or crops with immediate start of fertilization
Florabalt® Pot Base Coarse-Fibrous	101314	 Instant, Floraspur	5,6	0,3	coarse- fibrous	Bales MB	Container	Basic substrate in coarse-fibrous structure for substrate production or crops with immediate start of fertilization

GROWBAG

Floradur® Plant Growbag	89321	 Instant, Floraspur	5,6	0,8	medium	Bag	-	For the soil-independent crops of tomatoes, cucumbers and other fruit vegetables. Dimensions: 90 cm x 30 cm x 10 cm
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Instant: wetting agent for optimal water absorption · Floraspur: trace nutrients with high iron availability · MB: Mega Bale

White peat    Baltic white peat    Black peat    Perlite    Clay    Florafibre woodfibres

THE STANDARD SUBSTRATE PRODUCT RANGE

BIO-SUBSTRATES

Please contact your sales manager regarding a minimum order quantity!



TREND-SETTING FOR YEARS: FLORAGARD'S BIO SUBSTRATES

When using Floragard Bio Substrates you make no compromise in the matter of plant health and yield. For 15 years now we are developing optimal substrate mixtures in cooperation with our customers as well as with national and international organic growing



organisations. Practical experience proves us right. In comparative tests Floragard Bio Substrates are always in a top position and we continually improve this position by continuous development and research.

Substrate	Re- cipe no.	Composition	pH- value (CaCl <sub>2</sub> )	Salt content (g/l)	Structure	Deli- very form	Cultivation vessel	Application
SOWING/STICKING								
Floradur® Block Bio	10334	Bio-fertilizer	5,8	1,2	fine	Bag MB Bulk	Soil blocks	Press pots substrate for the cultivation of young vegetable plants
Floradur® Pot Herbs Bio WF	126510	Bio-fertilizer	5,8	1,2	medium	Bag MB Bulk	Pots from 7-13 cm	For the cultivation of potted herbs as well as tomatoes, cucumbers, bell peppers and other vegetable plants in pots
POTTING/CONTAINER								
Floradur® Pot Bio WF	126525	Bio-fertilizer	5,8	1,2	medium coarse	Bag MB Bulk	Pots from 7-13 cm	Potting substrate for ornamental plants and perennial plants; for medium-sized pots of approx. 7-13 cm
Floradur® Pot Container Bio WF	126483	Bio-fertilizer	5,8	1,2	coarse	Bag MB Bulk	Pots > 12 cm	Potting substrate for ornamental plants, perennial plants and woody plants in larger pots starting at approx. 12 cm

Apart from complying with the standard on the basis of the Council Regulation (EC) No. 2018/848, concerning the ecological/biological production of ecological/biological products, with its implementing ordinance (EC) No. 2021/1165 of the European Commission, our bio-substrates also satisfy the criteria of known national and international organic associations.

Floragard bio-substrates are listed in the organic input lists of the Research Institute of Organic Agriculture (FiBL) in Germany and Switzerland, as well as in the organic input directory InfoXgen®, for organic farming in Austria.

MB: Mega Bale

White peat Black peat Perlite Compost Clay Coir pith Florafibre woodfibres

THE STANDARD SUBSTRATE PRODUCT RANGE

PLANTING SUBSTRATES / HORTICULTURE AND LANDSCAPING

Please contact your sales manager regarding a minimum order quantity!



Substrate	Re- cipe no.	Composition	pH- value (CaCl <sub>2</sub> )	Salt content (g/l)	Structure	Deli- very form	Cultivation vessel	Application
PLANTS/SOIL CONDITIONING								
Floradur® Gardener's Soil Planting substrate WF	127123		5,8	1,6	medium coarse	Bag MB Bulk	-	Planting substrate for perennial plants, woody plants and bedding plants; also for soil improvement of beds
Floradur® Special Gardener's Soil Ericaceous substrate	110336		4,3	1,2	medium coarse	Bag MB Bulk	-	Planting substrate for rhododendron, azaleas, ericas, calluna plants and other ericaceous plant
Floradur® Special Gardener's Soil Lawn substrate	110337	Sand	5,6	1,0	fine	Bag MB Bulk	-	Special substrate for soil improvement with newly established areas and reparation of lawns
PUBLIC GREEN/GRAVEYARD								
Floradur® Special Gardener's Soil Tub and citrus substrate	110338	Iron chelate	5,2	1,3	coarse	Bag MB Bulk	Tubs	Structure-stable tub substrate for planting in tubs and for other plant vessels
SEASONAL PRODUCT Floradur® Plant Aquafloa 0* WF	129483	Flora Eco-Glue, Iron chelate, Instant	5,8	1,2	coarse	Bag MB Bulk	Hanging baskets, Tubs	For planting balcony plants in basket plants, hanging baskets, boxes and tubs; high water capacity
Floradur® Special Gardener's Soil Cemetery substrate	108715	Instant, Floraspor	5,6	2,2	fine	Bag MB Bulk	-	Very dark substrate for graves, for covering and soil improvement of grave surfaces

\*Also available as Aquafloa 4 and Aquafloa 6 with 4 or 6 kg/m<sup>3</sup> of a coated slow-release fertilizer

PERSONALIZED PACKAGING FOR NORTH GERMAN SUBSTRATES

With your own substrate packaging you signalize quality and support the image of your company. When ordering 5 palettes or more, optionally and for free your own individual corporate logo can be printed onto the packaging. For detailed information, please get in touch with your contact person here at Floragard.



On the basis of your logo.

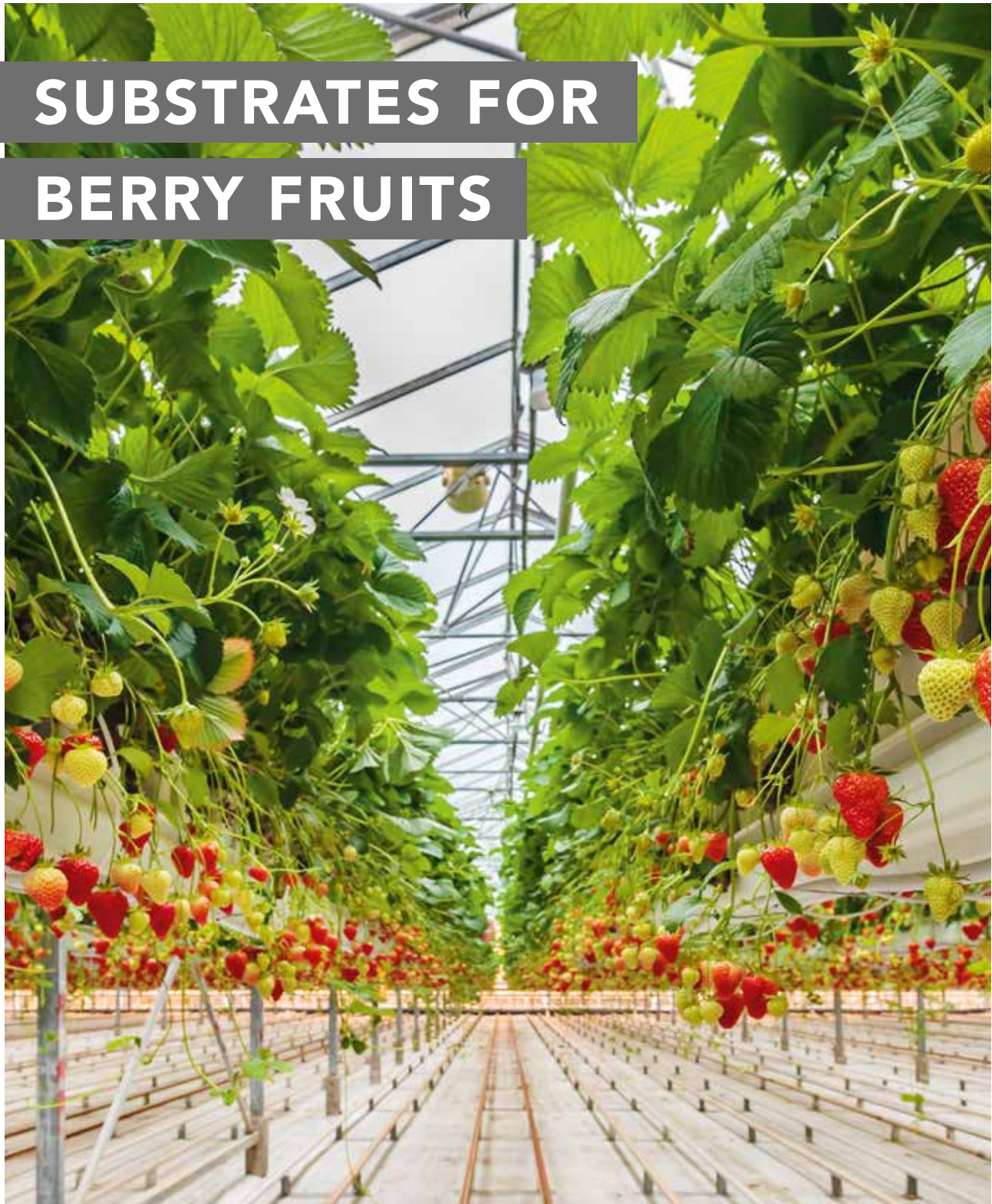
\* The print is only available in black



MB: Instant: wetting agent for optimal water absorption · Floraspor: trace nutrients with high iron availability · MB: Mega Bale

White peat Black peat Perlite Compost Clay Broken expanded clay Florafibre woodfibres





# SUBSTRATES FOR BERRY FRUITS


Strawberries, raspberries and blueberries – berry fruits have established themselves successfully. The substrate cultivation when cultivating berry fruits on a professional level place high demands on the substrate. These demands depend on the cultivation and the special cultivation procedure.









When used in containers, boxes and when ridge planting we suggest – depending on the size of the container – coarse and fibrous substrates with a small amount of fines.

The substrates that are mainly made out of North German white peat with a very high air capacity, guarantee a stable structure and drainage while absorbing and releasing water well. Substrates based on coir pith for cultivating strawberries provide increased harvests and are available as bulk or as growbags. Due to an especially adjusted low pH-value the availability of the nutrients and the development of fine roots are promoted.

## THE STANDARD SUBSTRATE PRODUCT RANGE

### SUBSTRATES FOR BERRY FRUITS

Please contact your sales manager regarding a minimum order quantity! 

Substrate	Re- cipe no.	Composition	pH- value (CaCl <sub>2</sub> )	Salt content (g/l)	Structure	Deli- very form	Cultivation vessel	Application
STRAWBERRIES/RASPBERRIES								
Floradur® B Cutting	10222	 Sand, Instant, Floraspor	5,6	0,8	superfine	Bag MB	Trays	Propagation of young plants in trays
Floradur® Pot Medium-coarse Berries	111704	 Instant, Floraspor	5,6	0,8	medium coarse	Bag MB Bulk	Pots from 8-13 cm	Potting substrate for small pots/containers
Floradur® Pot coarse Berries	111705	 Instant, Floraspor	5,6	0,7	coarse	Bag MB Bulk	Containers, Boxes, Ridge planting	Potting substrate for containers, boxes and ridge planting
Floradur® Pot Container Berries	109070	 Instant, Floraspor	5,8	0,7	mega-coarse	MB Bulk	Containers, Boxes, Ridge planting	Extra coarse-fibrous potting substrate for containers, boxes and ridge planting
BLUEBERRIES								
Floradur® Pot Blueberries WF	126438	 Instant, Floraspor	4,3	0,8	coarse	Bag MB Bulk	Container >1l	Potting substrate for containers
Floradur® Pot Container Blueberries	115968	 Floraspor	4,3	0,8	mega-coarse	MB Bulk	Container >3l	Extra coarse-fibrous substrate for large containers
Floratorf®	70011		3,0-4,0	0,2	approx. 0-40 mm	Bales Bulk	-	North German white peat for the improvement of the soil and ridge planting
MULCH FOR THE APPLICATION IN LARGE CONTAINERS								
Florafibre Cover	121250		-	-	0-20 mm	Bag MB Bulk	Container	Covering the substrate's surface in large containers

### IMPROVED PRODUCTION IN LARGE CONTAINERS WITH FLORAFIBRE COVER

With Florafibre Cover Floragard offers a multifunctional material for covering the substrate in large containers. You can apply it efficiently with modern spreading machines directly after potting. The material especially reduces the amount of weed seeds from surroundings that enter the substrate. Further-



more, it prevents mosses from growing, and capping due to large amounts of precipitations. The covering material keeps the surface of the substrate permeable to water and air, which are ideal conditions for the plants' growth. Growers can reduce the use of herbicides to a minimum amount by applying Florafibre Cover.

Instant: wetting agent for optimal water absorption · Floraspor: trace nutrients with high iron availability · MB: Mega Bale

 White peat  Black peat  Perlite  Coir pith  Florafibre woodfibre



# MY RECIPE

## MY SUBSTRATE BY FLORAGARD



### Premium substrates for professional needs

Our high-grade range of substrates satisfies virtually every customer's needs. In the meantime, however, the requirements and technical circumstances of numerous crops are frequently just as special and unique as the great variety found in the horticultural industry. For this reason Floragard offers mutual cooperation with our substrate field experts and the Technical Department of Horticulture. The purpose is to work on crops, growing methods, technical equipment and climatic conditions of the horticultural business and to develop individually tailored special substrates. To determine the optimal recipe for your substrates with regard to the composition, structure, fertilization and pH-value, there are numerous possibilities.

On the following pages you will find out more about the different organic and mineral constituents utilised by us, in addition to differently extracted and processed peat qualities and their place of origin. You will also find information on coir materials and different forms of clay. In combination with the substrate structure, which has

been aligned to the substrate processing and the kind of vessels, the constituents provide the foundation for your substrate, offering specific physical, biological and chemical properties in accordance with your requirements.

Additives are the final tesserae on the road towards the perfect substrate such as, e.g. Instant Plus®, which improves water absorption, calcium carbonate for adjusting the pH-value, and a great variety of different mineral or organic fertilizers with a starting or slow release effect.

More than 5000 different substrate recipes in the Floraexpert database reflect 100 years of experience and our aspiration to offer the optimal solution for each substrate user. We would like to have satisfied customers, who are proud to say: "This is my recipe!"

For orders of at least 10 pallets or 20 bulk cubic metres, you can commission recipes that are perfectly aligned to the crops in your line of business. The goal is to develop your very own, perfectly aligned product, supplied by us.

# THE SUBSTRATE STRUCTURES

## OPTIMAL SUBSTRATE STRUCTURE - AN ADDED BENEFIT IN CROP SAFETY

Modern horticulture requires discerning quality regarding the substrate structure. This is because the structure has a direct influence on the aeration, water and heat balance of the substrate, as well as on root growth, nutrient and water absorption and the growth of the plants. Here the structural stability during the crop cultivation period is of particular significance. A substrate remains stable if the overall number of pores and the pore size distribution is retained during crop cultivation. This is of particular importance with demanding crops or with crops that have a longer period of cultivation. Favourable physical properties such as air and water capacity should ideally be retained throughout the entire crop cultivation period.

For optimal plant production, having a substrate structure that has been aligned to the area of application and the operation-specific crop and production circumstances is indispensable. Besides the demands posed by the crops and the irrigation practices, the type and size of the vessels and the technical processing of the substrates with potting and filling machines is important. During consultation, all of these framework conditions are established in detail by our substrate experts, helping to select the ideal substrate for your business and crops. For the optimal structure contributes significantly to the successful growth of your crop cultivations.

Structure	Granulation	Application
Superfine	approx. 0-5 mm	Trays
Fine	approx. 0-7 mm	Propagation in general, soil blocks
Medium	approx. 0-10 mm	Potting, size of the pot 7-9 cm
Medium coarse	approx. 0-15 mm	Potting, size of the pot 8-11 cm
Coarse (special)	approx. 0-15 mm	Potting 11-13 cm
Coarse	approx. 0-25 mm	Potting, size of the pot > 12 cm
Coarse + fibres	approx. 0-45 mm, fibrous	Potting, Container > 1 l
Coarse-fibrous	approx. 0-35 mm, very fibrous	Potting, Container > 3 l
Super-coarse	approx. 0-60 mm	Potting, Container > 3 l
Mega-coarse (large containers)	approx. 0-60 mm, fibrous	Potting, Container > 10 l
Mega-coarse (berries)	approx. 0-70 mm, fibrous	Container, Boxes, Ridge planting





# THE CONSTITUENTS AND ADDITIVES

## MORE THAN JUST PEAT

High-quality substrate constituents provide a secure foundation for all of our products. However, to ensure that the crop substrate also satisfies modern-day horticultural needs, the selection and quality of the constituents and additives is of paramount importance. Regardless of whether they are used for conventional substrates or bio substrates. They are the adjusting screws that optimally align the properties to the climatic and crop-specific framework conditions of your business. In the following, you will find a selection of the different constituents, fertilizers and additives that we utilise for our Floragard substrates and your individualised substrate recipes!



### ORGANIC SUBSTRATE CONSTITUENTS

				
North German white sod peat	Baltic white peat	Frozen black peat	Green waste compost	Fermented bark
				
Coir pith	Coir fibres	Coir crush	Coir chips	Pine bark
				
Wood fibres	Florafibre 0-20 mm	Miscanthus-Mix		


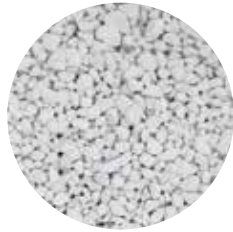


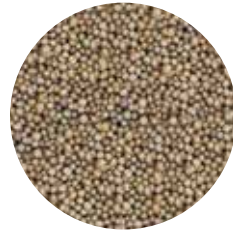
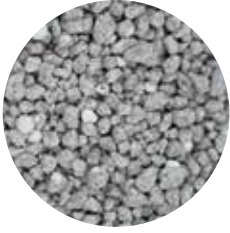
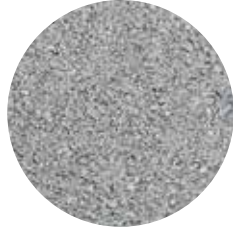
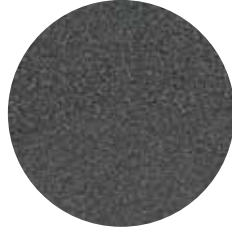
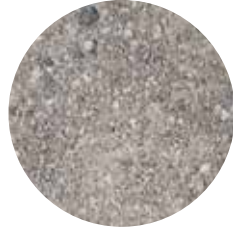
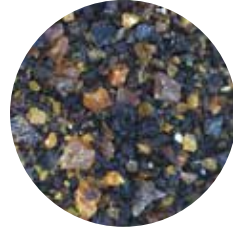
### MINERAL SUBSTRATE CONSTITUENTS

				
Perlite	Broken expanded clay	Pumice	Quartz sand	Bentonite
				
Clay granulate	Natural clay			

### ADDITIVES

				
Instant plus	Flora Eco-Glue	Fixolit	Flora-Vital (Microorganisms)	Trichoderma

### FERTILIZERS AND LIMES

				
Calcium carbonate	Coarse lime	Start fertilizer 18-10-20 + traces	Start fertilizer 6-17-27 + traces	Slow-release fertilizers
				
Compacted slow-release fertilizers	Micro-nutrient fertilizer Floraspur	Iron-chelate fertilizer	Bio-fertilizer Flora Bio-Mix	Bio-fertilizer horn



# HOW DOES WHAT WORK?

## POWERFUL PROPERTIES FOR YOUR SUBSTRATES

Organic and mineral substrate constituents are highly versatile regarding their chemical, physical and biological properties. Thanks to a skilful addition of white and black peat as well as other constituents and additives, the optimal substrate for your field of application can be created.

	Water capacity	Air capacity	Drainage	Structural stability	Wettability	Water absorption/distribution	Bonding capacity	Nutrient buffering	pH buffering	Microbial activity
White peat	+	++	+	+		+				
Black peat	++					++	+	+	+	
Green waste compost					+	+		+	+	++
Fermented bark		+	+	+					+	+
Coir pith	+	+	+		+	+				
Coir fibres		++	++	+	+	+				
Coir crush/Coir chips		++	++	++	+	+				
Wood fibres		++	++		+	+				
Florafibre 0-20 mm		++	++	+						
Pinebark		++	++	++						
Perlite		++	++	+						
Broken expanded clay		++	++	++	+					
Pumice 2-8 mm		++	++	++						
Quartz sand			++	+	+					
Clay granulate								++		
Bentonit					+	+		++		
Natural clay	+				+	+		+		
Instant plus					++	+				
Water retenti-on granulate	+									
Fixolit	+				+	+	++	+		

Effect: ++ high + medium low

# RAL QUALITY LABEL

## THE RAL QUALITY LABEL – A LABEL OF HIGHEST QUALITY

Our professional customers require high-quality service and reliable product quality at the highest level. Among others, the consistent high quality is monitored by the "Gütegemeinschaft Substrate für Pflanzen e.V." (Quality Assurance Association Growing Media for Plant Cultivation). The parent organization is the RAL "Deutsche Institut für Gütesicherung und Kennzeichnung" (German Institute for Quality Assurance and Certification). Here the institute intensively and continuously examines plant substrates regarding their chemical, physical and biological properties. A company will only be awarded the RAL quality label after a successful approval procedure. Afterwards it will be monitored constantly. Here the quality assurance not only involves the quality control of the finished product substrates but also the



continual incoming goods inspection of the basic materials and additives. Under the RAL certification, the consistent high quality provides the foundation for crop cultivation safety and the economic success of your company – secured by Floragard and the Quality Assurance Association Growing Media for Plant Cultivation.



Winfried Temming, Head of the technical department of horticulture



Regular analyses ensure reliable product quality



Quality control of the finished substrates



# YIELD OF THE SUBSTRATES

The Floragard substrates are sufficient for the following number of pots:  
(Volume losses due to compaction of the pots have been taken into account)

## ROUND POTS

Pot size in cm	1 m³ loose/Mega-Bag sufficient for:	70 l bag sufficient for:	225 l bales sufficient for:	250 l bales sufficient for:
5,0	16.625	1.170	3.750	4.180
5,5	11.875	840	2.660	2.945
6,0	9.260	645	2.090	2.280
6,5	6.410	445	1.425	1.615
7,0	5.940	420	1.330	1.470
7,5	5.225	360	1.190	1.300
8,0	4.160	285	940	1.045
8,5	3.325	240	750	835
9,0	3.090	220	695	770
9,5	2.375	165	530	600
10,0	2.040	140	455	515
10,5	1.800	120	410	455
11,0	1.470	105	330	370
11,5	1.425	100	325	360
12,0	1.140	80	255	285
12,5	1.045	75	235	275
13,0	900	60	200	230
14,0	710	50	160	180
15,0	570	35	135	140
16,0	475	30	105	115
17,0	380	25	90	95
18,0	285	20	65	75

## SQUARE POTS

Pot size in cm	1 m³ loose/Mega-Bag sufficient for:	70 l bag sufficient for:	225 l bales sufficient for:	250 l bales sufficient for:
7 x 7 x 6,5	4.180	285	940	1.045
7 x 7 x 8	3.325	235	750	835
7 x 7 x 9	3.325	235	750	835
8 x 8 x 7	2.850	210	645	720
8 x 8 x 8	2.515	190	570	635
8 x 8 x 8,5	2.375	170	530	600
8 x 8 x 9	2.280	160	520	570
9 x 9 x 7	2.185	150	495	550
9 x 9 x 8	1.710	125	380	435
9 x 9 x 9,5	1.615	115	360	400
9 x 9 x 10	1.425	95	315	350
10 x 10 x 11	1.235	85	275	305
11 x 11 x 12	855	55	190	210
13 x 13 x 13	570	35	125	140
15 x 15 x 20	285	20	55	65

Volume is based on regulation EN 12580  
Average values, deviations are possible depending on the form of the pot, substrate moistness, size of the seedling root balls and potting machine settings.

# THE PEAT-FREE SUBSTRATES

Please contact your sales manager  
regarding a minimum order quantity!



## PEAT-FREE SUBSTRATES

### FUTURE-ORIENTED ON A PEAT-FREE BASIS

For many years the Technical Department of Horticulture at Floragard has been working in close contact to their customers and research facilities on solutions for capable substrates without peat. As a result of many tests the Floragard Vertriebs-GmbH offers peat-free substrate for different purposes. For planting, propagation, potting or container substrates – our innovative substrates on a basis of alternative constituents stand for crop safety and capability.



Substrate	Re- cipe no.	Composition	pH- value (CaCl <sub>2</sub> )	Salt content (g/l)	Structure	Deli- very form	Cultivation vessel	Application
POTTING SUBSTRATES								
Floradur® Pot without peat	109621	 Floraspur	5,6	1,3	medium	Bag MB Bulk	Pots from 8-14 cm	Potting substrate without peat. For bedding and balcony, herbs and perennial plants
Floradur® Pot Container without peat	110524	 Floraspur	5,6	1,5	medium	Bag MB Bulk	Pots > 12 cm, Container	Container substrate without peat for shrubbery, broad-leaved trees and shrubs and conifers
Floradur® Pot Rhodo without peat	111021	 Micromax	4,2	0,5	medium coarse	Bag MB Bulk	Pots > 11 cm, Container	Potting substrate for ericaceous plants
PLANTING SUBSTRATE								
Floradur® Plant Universal without peat	127644	 Floraspur, Nitrogen fertilizer	5,6	1,6	medium	Bag MB Bulk	-	Universal planting substrate for perennials, beds, plants and shrubs

Instant: wetting agent for optimal water absorption · Floraspur: trace nutrients with high iron availability · MB: Mega Bale

- Perlite
- Compost
- Fermented bark
- Broken expanded clay
- Coir pith
- Florafibre woodfibres
- Coir crush
- Pine bark



THE PEAT SPECIALITIES

PEAT SPECIALITIES

Many years of experience with the gentle, structure-preserving processing and safe raw material quality procured from own production plants – these properties are the basis for the excellent reputation enjoyed by Floragard’s range of peat products. Benefit from the ideal and specifically adjusted raw material quality for all of your crop cultivations or for your individualised substrate mixture.

Floragard peat specialties are processed and packed in a gentle, structure-preserving manner in production plants in Northern Germany and the Baltic states. We certainly use these peats in the same way for our own North German and Baltic substrate mixtures. In different sieving methods and shipping units, we offer you the ideal raw material foundation for your specific intended use.

Substrate	Re- cipe no.	Composition	pH- value (CaCl <sub>2</sub> )	Salt content (g/l)	Structure	Deli- very form	Cultivation vessel	Application
STANDARD PEAT QUALITIES								
Floratorf®	70011		3,0-4,0	0,2	approx. 0-40 mm	Bales MB Bulk	-	North German white peat without lime and fertilizer, for own mixing of growing media and for soil improvement
Hansatorf®	70020		3,0-4,0	0,2	approx. 0-40 mm	Bales MB	-	Baltic white peat without lime and fertilizer, for own mixing of growing media and for soil improvement
SIEVED GRADES OF PEAT								
Floratorf® 0-7 mm	70007		3,0-4,0	0,2	0-7 mm	Bales Bulk	-	Fine peat sieving made from German peat, for manufacturing of fine propagation and potting substrates
Floratorf® 7-20 mm	105995		3,0-4,0	0,2	7-20 mm	Bales Bulk	-	Medium peat sieving made from German peat, for mixing of medium to coarse-structured potting substrates
Floratorf® 20-40 mm	70015		3,0-4,0	0,2	20-40 mm	Bales Bulk	-	Coarse peat sieving made from German peat with fibrous share, for mixing of coarse-structured potting and container substrates
Florabalt® Peat 0-5 mm	111972		3,0-4,0	0,2	0-5 mm	Bales MB	-	Fine peat sieving made from Baltic peat, for manufacturing fine propagating and potting substrates
Florabalt® Peat 0-7 mm	70021				0-7 mm			
Florabalt® Peat 5-20 mm	111974		3,0-4,0	0,2	5-20 mm	Bales MB	-	Medium peat sieving made from Baltic peat, for mixing of medium- to coarse-structured potting substrates
Florabalt® Peat 7-20 mm	70022				7-20 mm			
Florabalt® Peat 10-20 mm	111973				10-20 mm			
Florabalt® Peat 20-40 mm	70023		3,0-4,0	0,2	20-40 mm	Bales MB	-	Coarse peat sieving made from Baltic peat, with fibrous share, for mixing of coarse structured potting and container substrates

MB: Mega Bale  
● White peat ● Baltic white peat

DELIVERY FORM

NORTH GERMANY

SUBSTRATES



Floradur®  
Multiplication  
Substrate 70 L



Floradur®  
Potting  
Substrate 70 L



Floradur®  
Special Mixture 70 L



Floradur®  
Bio-Substrate 70 L



Tube growbag  
30 L



Mega Bale

BULK



BALTIC STATES

SUBSTRATES



Florabalt® Growing  
medium 70 L



Florabalt® Growing  
medium 250 L



Florabalt® Growing  
medium 300 L



Mega Bale



TKS® 1  
Instant Plus 225 L



TKS® 2  
Instant Plus  
100 L / 225 L

PEAT SIEVED



Florabalt® Peat  
250 L / 300 L



Mega Bale

PEAT STANDARD



Floratorf®  
225 L



Hansa Torf®  
250 L / 300 L



Mega Bale

Our terms of payment and delivery are valid. You can find them on the internet at <https://professional.floragard.de/AGB> · Changes and errors reserved. Illustrations are similar.





... and everything starts to blossom!

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