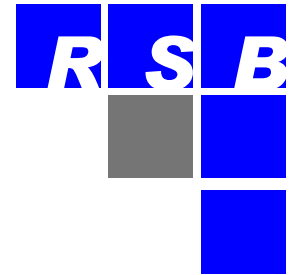


ROST SYSTEMBAUSTOFFE

DURABLE PAVED SURFACES IN BOUND CONSTRUCTION



- JOINTING MORTARS
- BEDDING MORTARS
- MOVEMENT JOINTS
- TECHNOLOGY
- CONSULTING
- SERVICE

RSB bedding mortar DFB-5S

Areas of application

Bound construction of sett pavings.

Laying of natural stone and concrete stone setts, flagstone and brick pavings in a mortar bedding.

New construction and repairs of all kinds of carriageway constructions such as:

Bus lanes, streets, market places, pedestrian precincts, parking lots, rail track areas, bridges, drains, gutters, industrial spaces, etc.

System description

RSB DFB-5S is a cement-bound dry mortar with a special grading curve.

In conjunction with RSB PFM jointing mortar enduring and highly loadable sett and flag pavings can be constructed.

RSB DFB-5S can be delivered as bagged cargo or by silo with the appropriate mixing technique:

- that way the mortar silo is situated on site
- always fresh, optimally mixed material
- consistent, guaranteed quality of the material
- no delays due to delivery
- no waste disposal of unused or excess material

Workings of the paving crew can be carried out independently of:

- manning of the construction site
- delivery periods
- daily order transactions
- outside the normal working hours, e.g. at the weekend

RSB DFB 5S is in its properties adjusted to the special requirements of a sett paving construction and offers decisive advantages:

System Information

As of August 2006

Product properties

By means of special, high quality cements and additives the properties of the fresh and stiff mortar are adjusted in such a way that optimal processing characteristics and lasting durability of the bedding material and the paved area are guaranteed.

Special grading curve

The composition of the material allows a high pressure stability and, at the same time, a high water permeability of the bedding mortar.

Fast development of adhesion strength -

the site can be reopened for traffic within a short time

High compressive strength

Ensures the durability of the paving surface, the capacity of the special grading curve is by about 20% higher than with conventional material.

Water permeable bedding and optimal load transfer

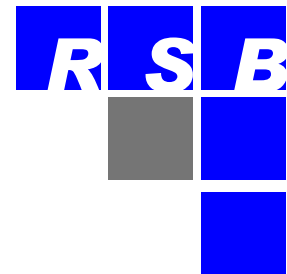
An extensive distribution of loads by force-fit tied paving stones as well as a high pressure and flexural strength prevent the formation of ruts and dislocations and allow the construction of pavements in areas with a high traffic load.

Resistance to frost and anti-freezing chemicals

RSB DFB-5S has virtually no capillary voids so that the bedding cannot be damaged by frost or anti-freezing chemicals.

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Technical data

RSB DFB-5S

This high-quality bedding mortar is cement bound and drainable

Working temperature

Min. +5° C, max. +35° C

Consumption

20 kg RSB DFB-5S per sq.m and cm bedding

Gross density

>1950 kg / m³

Water permeability coefficient

$k_f \geq 1.42 \times 10^{-4}$ m/s

Processing time min. 60 minutes

The paved area can be jointed after 24 h

Mechanical properties of compressive strength N/mm ²			
Test specimen: cube of 150 mm			
24 h	3 d	7 d	28 d
8	12	19	32

Mechanical properties of compressive strength N/mm ²			
Test specimen: prism of 40x40x160 mm			
24 h	3 d	7 d	28 d
9	13	22	40

Opening to pedestrians*	after 24 h
Opening to passenger cars*	After 5 days
Opening to lorries*	After 10 days

* after jointing with PFM pavement jointing mortar

Packing / storage

Bagged cargo: Bags of 40 kg, 30 sacks per palett,
Store dry on palett, storable for 12 months
Silo delivery: loose in a dry mortar silo from 10 tons

GIS code / hazardous material

ZP 1 / no haz-mat

Processing advises

1. Preparation of the bedding mortar

RSB DFB-5S is to be applied in earth-moist to stiff, malleable consistency

Mixing instructions for bagged cargo

Only mix whole packages

Required addition of water: 3.6 to 3.8 litres per unit of 40 kg

Suitable cement mixer:

Rotary-drum mixer, stirring device, compulsory mixer

Mixing time: 2-3 minutes

Flow mixer for bagged cargo up to 6 mm graining (for instance m-tec D20)

Mixing instructions for mortar delivered in a silo

Water addition can be regulated at the silo mixing station.

2. Processing of the bedding mortar

The bedding mortar has to be always processed in fresh condition. Only mix as much bedding mortar as you can process in about sixty minutes time.

If the bedding mortar is to be interim stored, it should always be protected against rainfall or dehydration by covering it with a plastic sheet.

Material which has not been processed for more than sixty minutes or altered by adding water must not be applied anymore.

Laying of pavers

The bedding faces of the paving stones have to be clean from dirt, dust, or loose material.

Pre-wet stones thoroughly.

Laying of natural stone pavers

Apply **RSB DFB-5S** loosely at a thickness of 6-8 cm; set pavers hammer resistant, aligned, and level; the paving stone should be pushed 2 cm into the bedding mortar. **The paved area must not be compacted with a plate vibrator.**

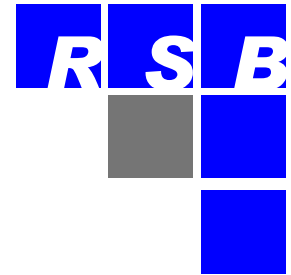
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As of 15.January 07

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3. After-treatment of the bedding mortar

After the laying, the paved or slabbed area can be cleaned with a fine mist jet. Try to work with as little water as possible.

The completed area has to be protected against contamination, rain fall, or strong solar radiation by covering it with a plastic sheet until jointing.

The surface must not be walked on without safety measures.

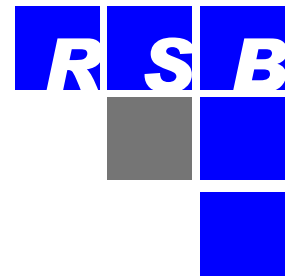
Jointing with RSM PFM jointing mortar is to be always carried out after setting of the bedding mortar, that is after 24 h at the earliest.

*The recommendations about the technical applications that we give to assist the user according to our experience and the state of the art of science and practice are not binding and do not constitute any contractual legal relationship or any accessory obligations from the purchase contract. We do not absolve the purchaser or user from checking our products for suitability for the intended purpose of use. Apart from that our general terms and conditions apply. With the release of this leaflet, all previous publications lose their validity.
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