



RD Flow is a rapidly setting, bitumen-free reactive sealant for the waterproofing of floor areas in new buildings and for the repair of existing waterproofing.

Due to its self-levelling property, minor unevenness can be equalized with RD Flow.

PROPERTIES

- Self-levelling, rapid reactive sealant
- Equalizing sealant for floor slabs
- Can be tiled directly
- Highly flexible and crack-bridging
- Impervious even under negative water pressure (during construction phase)
- High UV-light, frost and aging resistance
- With visible curing control
- Tested radon tightness according to ISO 11665
- Can replace post-treatment measures in case of young concrete

AREAS OF APPLICATION

- waterproofing of floor slabs that are in contact with the ground
- waterproofing of balconies and terraces
- repair of existing waterproofing
- intermediate sealant under screeds
- horizontal waterproofing in and underneath walls
- composite sealant below tile coverings

SUITABLE SUBSTRATES

For the use of RD Flow as structural waterproofing

- mineral substrates
- old, stable bituminous waterproofings
- screeds with a slope $\leq 2\%$

For the use of RD Flow as composite sealant

- mineral substrates
- metallic substrates
- wooden substrates
- gypsum based substrates
- old tile coverings
- sloped screeds

SUBSTRATE PREPARATION

The substrate must be in the following condition:

- stable, clean and frost-free
- free from grease, paint, cement laitance, separating agents, sinter layers, honeycombs, protruding mortar residues and loose particles

Mineral substrates must be slightly damp or pre-wetted prior to the application of the first waterproofing layer. Non-absorbent substrates (e. g. bitumen) must be dry.

To ensure an optimal contact to each substrate and to close fine air voids in the surface of mineral building materials a scratch coat has to be done prior to the application of the first waterproofing layer. For this purpose, RD Flow is to be pulled sharply over the substrate by means of a squeegee (rubber squeegee).

SUBSTRATE PREPARATION

When using RD Flow as a composite sealant under tiles and slabs on mineral substrates in interior areas, it can be primed with D11 Deep action primer instead of making a scratch coat.

Please also note:

- lightly sanding substrates must be primed with D12 pre-treat deep silification
- closing of defects and open butt joints

< 5 mm width → with RD Flow

≥ 5 mm width → with M36 Speed, M35 oder M38

APPLICATION

Use of RD Flow as structural waterproofing

- add component B to component A and mix both together with a slowly rotating mixer for at least 2 minutes
- don't mix material again that has started to set

RD Flow is applied using a coating knife, smoothing trowel or spray device onto the dried scratch coat. The application of RD Flow has to be done in at least two layers.

When exposed to ground moisture or non-pressing water, the application can be carried out fresh in fresh. When exposed to pressing water, the first layer must be dry enough so that it can no longer be damaged when the second layer is applied.

To cover joints and to produce connections, internal corners, transitions and penetrations, we recommend working SB78 sealing tape and accessories into the first layer of the waterproofing and then to cover these with the second layer which should be smoothed over with a paint brush.

In the following sub-areas, the structural waterproofing work is to be carried out with RD2 The Green 1:

- connection of the structural waterproofing to door and window elements with the PB Portal sealing tape.
- bonding of the SB78 system sealing tape and accessories in the area of the floor/wall connections
- raising of the waterproofing on rising structural components

Use of RD Flow as composite sealant

RD Flow is approved by the building authorities as a composite sealant system with the tile adhesives M21 Classic, M21 HP, M21 HP Speed and M29 HP.

To cover joints and to produce connections, internal corners, transitions and penetrations, we recommend working SB78 sealing tape into the first layer of the waterproofing using the suitable accessories and then to cover these with the second layer.

To avoid sound bridges, the connection joints between floating screeds and rising building components must be kept free of RD Flow. Self-adhesive levelling compound stoppers or suitable adhesive tapes can be used as aids for this purpose, which can be easily removed after the waterproofing has dried.

If RD Flow is used as a composite sealant under tiles and slabs, the bonding of the SB78 System sealing tape and accessories in the area of the floor/wall connections can be carried out also with MD1 Speed, MD2 The Blue 1, RD1 Universal, RD2 The Green 1, MULTIPROOF or DF9 (interior areas).

Both RD2 The Green 1 and MULTIPROOF can be used to raise the sealant to the rising structural elements.

When using RD Flow as a composite sealant under tiles and slabs, the use of a spiked aeration roller is recommended directly after applying the sealant to achieve a particularly even surface for the subsequent tiling.

APPLICATION

Curing is complete when the waterproofing is no longer the colour it was when fresh (light grey), but has turned dark grey across the entire area. The mixing ratio specified by the factory must be strictly adhered to. If RD Flow is to be applied using the spray method, we recommend contacting the experts from our technical department first.

CONSUMPTION

application area	consumption (kg/m ²)	△ wet layer thickness (mm)	△ dry layer thickness (mm)
scratch coat	0.5- 1.2*	-	-
waterproofing of structural elements			
waterproofing in case of ground damp and non-standing seepage water	3.2	2.1	2.0
waterproofing in case of pressing water (moderate exposure)	3.2	2.1	2.0
horizontal waterproofing in and under walls	3.2	2.1	2.0
composite sealant			
composite sealant according to EN 14891	3.2	2.1	2.0

* depending on the roughness and the planarity of the substrate

IMPORTANT ADVISORIES

When waterproofing building structures in contact with the ground all valid technical standards and guidelines must be observed in their current versions.

RD Flow should not be applied onto areas getting plenty of sunshine.

When work is interrupted during application, extend RD Flow down to a feather finish. Work is continued with an overlap. Interruptions in the area of corners and edges are not permissible.

In case of punctual peeling off from the substrate the functionality of the sealing is conserved within the area due to the high inner material stability.

RD Flow must not be exposed to mechanical stress.

RD Flow is not recommended for direct application on metals that may be attacked by cement. Metal substrates must be degreased and roughened beforehand.

RD Flow does not serve as a vapour barrier.

RD Flow is suitable as composite sealant according to EN 14891 used under tiles in connection with all Botament tile adhesives.

For durable sealings against negative water pressure our sealing slurries M34 und MS30 are suitable.

IMPORTANT ADVISORIES

You can view or download the safety datasheet at www.botament.com.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	~ 1.5	
Sd-value	m	~ 1.2	at 2.0 mm dry layer thickness
Compressive strength	N/mm ²	3	
Mixing ratio	kg:kg	1:1.5	comp. A : comp. B
Working time	minutes	~ 20	
Layer thickness (wet)	mm	≤ 5	
Accessible after	hours	~ 4	
Consistency			flowable
Application conditions	°C	> 5 < 30	

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

base	polymer dispersion, special cement, additives		
colour shade	grey		
delivery form	28.3 kg unit 11.3 kg can liquid component (A) 17 kg bag powder component (B)		
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs. Protect from frost.		
Cleaning agent	when fresh: water, when fully cured: mechanical		

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300012071]