

# WEBER REP FLOW



- Pumpable - fast and ergonomic setting
- Finished concrete surface with minimal work effort
- Suitable for indoor and outdoor use, for example, for garages, terraces, exterior corridors, basement floors, etc.
- Exposure classes X0/XC4/XS2/XD3/XF4/XA2
- Compression strength class C35/45

## ABOUT THIS PRODUCT

Weber REP flow is a pumpable flowing surface concrete that provides a wear-resistant finished concrete surface. REP flow is based on Portland cement, sand and additives to achieve good flow properties, low shrinkage, good adhesion to the substrate and good frost resistance. The material can be mixed and placed by hand or with Webers mixer pumps. Weber REP flow can also be delivered with Webers pump truck.

## AREA OF USE

Weber REP flow is a flow concrete that is recommended to be used indoors and outdoors both in new production and in renovation, where it requires durable, moisture and frost resistant floors. Recommended layer thickness is (10)\*-80 mm.

\*difficult to achieve on large areas

## SUBSTRATE

Concrete

The substrate should be clean and free of contamination, oil/grease, cement skin/sludge, etc. Pollutants that affect

## PRODUCT SPECIFICATION

|                                               |                                                                                                                    |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Material consumption                          | 2,0 kg/m <sup>2</sup> /mm                                                                                          |
| Recommended layer thickness                   | 10-80mm                                                                                                            |
| Recommended water content                     | approx 3,0l / 20 kg                                                                                                |
| Application temperature                       | 8-25°C                                                                                                             |
| Pot life (Operating time)                     | About 20min at +20°                                                                                                |
| Curing time for pedestrian traffic            | 8-12 hours at 20 °C                                                                                                |
| Curing time for light traffic load            | 1 day at 20 °C                                                                                                     |
| Curing time for full traffic load             | 7 days at 20 °C                                                                                                    |
| Consistency                                   | 160-190mm according to Weber standard 99:03                                                                        |
| Binder                                        | Portlandcement                                                                                                     |
| Cement type and class                         | Cem I 42,5N MH/SR3/LA together with Cem I 52,5 R according to EN 197-1                                             |
| Fiber                                         | Yes, polypropylenefibre                                                                                            |
| Aggregate                                     | Natural gravel/sand 0-2mm                                                                                          |
| Compressive strength class                    | C35/45 according to EN 206-1                                                                                       |
| Compressive strength 1 day                    | >10 MPa according to EN 12390-3                                                                                    |
| Compressive strength 3 days                   | >25 MPa according to EN 12390-3                                                                                    |
| Compressive strength 7 days                   | >30 MPa according to EN 12390-3                                                                                    |
| Compressive strength 28 days                  | >45 MPa according to EN 12390-3. For accredited strength testing report at 28 days, contact Weber.                 |
| Flexural strength class                       | F 7 according to EN 13813                                                                                          |
| Shrinkage 28 days                             | <0,50mm according to EN 13454-2                                                                                    |
| Exposure class                                | X0/XC4/XS3/XD3/XF4/XA2 according to EN 206-1                                                                       |
| Repair class                                  | R3 according to 1504-3                                                                                             |
| Frost resistance                              | Good, according to SS 13 72 44 1A                                                                                  |
| Density                                       | approx 2050 kg/m <sup>3</sup>                                                                                      |
| Water cement ratio                            | approx 0,40                                                                                                        |
| Storage conditions                            | Storage time for bags on a plastic-covered pallet is approx. 12 months from date of packing. Store in a dry place. |
| Package                                       | 20 kg bag 1000 kg bigbag Bulk                                                                                      |
| Global Warming Potential (GWP) Acc. EPD A1-A3 | 0.424 kg CO <sub>2</sub> e/kg                                                                                      |

adhesion may not occur. The surface strength must be at least 1 MPa on underlying concrete.

## Floating floors

REP flow on non-supporting substrates, type insulation or similar like shall be reinforced and performed as a standard casting. The minimum layer thickness for a

reinforced floating floor is 40 mm. Reinforcement should meet NPS 5100 or equivalent. Consult with Weber for the choice of floating construction.

### CONSTRAINTS

- Should not be used in temperatures below +5°C

### PRETREATMENT

Pretreatment of suction surfaces

The substrate can be primed with weber floor 4716 primer (swedish product) . The priming is mixed in the ratio 1: 5 and worked down into the substrate with broom. The primer should have dried and formed films before the release of Weber REP flow occurs. The temperature at priming should exceed + 8 ° C.

Smooth and slightly absorbent surface

On smooth and hard concrete substrates, mechanical machining (i.e.g blasting, watering, rough grinding or similar) is recommended prior to priming

### MIXING

Hand applying

The mixture is made in larger mixing vessels or mixer with room for 3-4 bags (75-100 liters). Add most of the water into the mixer. Mix in the dry and adjust the consistency with remaining water. The mixture should be homogeneous and lump free. Mix with a drill and whisk for 3-4 minutes. Water requirement 3.0 liters / 20 kg. Strive for an outlet size of 160-190 mm with Webers standard flowmeter ring (ø68xh35) mm. The mixture should be homogeneous and must not be separated.

Observe

Never use more water than necessary to get a good result! Cold and hot water and materials respectively, affect the workability of the pre-mixed concrete. Refined concrete should keep the temperature 10-25 ° C at the time of applying.

### WORK INSTRUCTIONS

Applying by hand

The concrete is poured into suitable buckets. The mass is distributed in layers and gradually processed by a wobbler or similar to achieve a flat surface. The processing time at 20° is about 20 minutes.

Applying by concrete mixing pump

REP flow is pumped onto the substrate in a maximum of 10 meters. Each new wet layer is put into "wet wet" with an overlap of about 5 cm as fast as possible to allow the mass to flow into evenly. During laying, the mass is machined with a wobbler in the same direction as the hose liner to avoid possible foam and stripes from the top surface. The layout is adapted to the capacity of the mixing pump and the layer thickness. The width should not exceed 10 meters without delimitation. If you want to get a floor with a high level of flatness, it is important to limit the width of the deployment and to use a static aftermixer (sausage killer) is recommended to ensure the homogeneity of the concrete.

### AFTER-TREATMENT

The finished surface should be protected against dehydration. For best final results, exposed areas should be protected during the first days against direct sunlight, rain and wind. Membrane hardeners can be applied applied at the earliest when Weber REP flow is possible to walk on and no later than one day after applying.

Weber REP flow is ready for light traffic load after about 1 day (20 ° C) without requiring additional treatment or surface coatings. If desired, the surface can be painted, impregnated or surface coated with any material (intended for direct contact with concrete). Ask Weber about surface coatings.

### PLEASE OBSERVE

At a temperature lower than + 5 ° C, the growth will stop. When casting on cold concrete surfaces, this must be considered and, if possible, also heat the material / substrate before casting. Then protect the molded casting against cooling. The concrete must not be exposed to

frost before the strength of 5 MPa is reached. This usually occurs after 1-3 days depending on the surrounding temperature and weather conditions

#### SAFETY REGULATION

Always read the applicable safety data sheets, use personal protective equipment and follow the workplace safety regulations.

#### ENVIRONMENTAL ADVICE

The product is alkaline upon reaction with water. For information about protective equipment and other safety precautions, refer to safety data sheet. Hardened material does not pose a hazard to the environment or health

#### DISCLAIMER

As there are different conditions at every opportunity, Weber can not be held responsible for anything

other than the information provided under the heading "Product Specification". Examples of information and circumstances, which are outside Saint-Gobain (whether specifically stated or not) include storage, construction, processing, interoperability with other products, workmanship and local conditions.