

Technical data sheet

Fradiflex® Metal Water Stop

Product description:

The Fradiflex® metal water stop consists of galvanised sheet steel available in 120 mm and 150 mm widths and a thickness of approximately 0.6 mm, with one-sided or double-sided special coating.

The special coating is covered by a protective film tape divided in the middle. Fradiflex® metal water stop is available in different versions: in 25 m long rolls and in 2.1 m straight lengths. Use of the Fradiflex® metal water stop is approved for sealing of construction joints in in-situ walls – at wall-base sections without permanent edging formwork or at wall-slab and base-base as well as wall-wall sections, both for building construction and for civil engineering structures.

The Fradiflex® metal waterstop was tested by the Technical University of Munich, functional test up to 5 bar pressure (50m water column).

Technical data:

Sheet steel material	St 37 galvanised
Metal water stop height	120 mm or 150 mm
Metal water stop thickness	0.6 mm
Metal water stop length	25 m or 2.1 m
Special coating material	Elastomer synthetical
Substance of special coating	- Formaldehyde (CAS 50-00-0) → not any - Guideline 94/62/EG Quicksilver, plumb, cadmium and chromate (VI) → not any - VOC (CH814.018) → 0% - VOC (EN ISO 11890-2:2001) → <0,3%
Thickness of special coating	Approx. 0.2 mm (one-sided or double-sided)
Colour of special coating	black
Thermal stability	- 30°C up to + 80°C
Working temperature	+ 5°C up to + 40°C

Instructions for use:

When installing metal water stop with one-sided coating, turn coating to the water retaining side. Depending on the version of Fradiflex® used, the metal water stop is installed (attached) to the upper reinforcement layer either by using a fixing angle or specific mounting clips. Remove the protective film tape of the required half of the metal water stop shortly prior to concreting only. The recommended depth of immersion of the metal water stop in the fresh concrete is at least 3 cm up to the half width of the metal water stop (refer to fixing instructions).

Shelf life:

12 months after date of production at max. 35 °C. Store in a dry place and keep off from humidity.

Safety:

Keep out of reach of children. In case of any doubts refer to the corresponding safety data sheet.

Recommendations with regard to product application given in the present technical data sheet for practical assistance of product users are based on our experience and our present scientific and practical body of knowledge. These recommendations, however, are given without engagement and do not establish a contractual relationship or subsidiary duties. These recommendations do not relieve users of their liability and of their own responsibility to test, whether our product is adequate for the intended purpose of application.

Special coating and chemical resistance for Fradiflex®

Bond	Concentration	Resistance*)
Acetone		-
Ethyl acetate		-
Ethanoic acid	10 %	+
Ethanoic acid	25 %	+
Chloric acid	10 %	+
Chlorine water (swimming pool)		+
Lactic acid	50 %	+
Nitric acid	10 %	+
Nitric acid	20 %	+
Hydrogen fluoride	7 %	+
Sulphuric acid	5 %	+
Orthophosphoric acid	84 %	+
Ammonia solution	22 %	+
2 Butoxy ethyl alcohol		+
Sea water (salt water)		+
Sodium hypochlorite solution		+
Petrol		-
Hydrogen peroxide	33 %	+
Ethyl alcohol	20 %	+
Ethyl alcohol	100 %	-
Ethylenediamine		-
2-Ethylene hexanol		-
Fuel oil		-
Paraffin oil		o
Mineral oil		o
Concentrated soapsuds		+
Formaldehyde solution	37 %	+
Sodium carbonate solution	10 %	+
Toluol		-
Trichloroethylene		-
Light petrol		-
Diesel		-
Biodiesel		-
Engine oil		-
Clarified water (pH 5 - 6) according to the ordinance on sewage sludge treatment		+
Hydrogen peroxide (H ₂ O ₂)	37 %	+
Liquid pig manure		+
Cement laitance		+
Mains Water		+
Trennfit Super Release Agent		+
Sodium citrate	12 %	+

*) + resistant o conditionally resistant - not resistant

Special remarks:

These data are provided based on our best knowledge, based on test results under practical working conditions. They are, however, not binding and are no warranty of a quality according to the legislation of the Federal Supreme Court. Data given conform to the state of the art knowledge available at the time of printing this document. They are subject to change without notice. In view of the variety of applications of our products we recommend to carry out a careful aptitude test of the product using original materials, before releasing it for actual use. All our products are subject to a rigorous quality control.