

## Thixotropic epoxy resin adhesive

- two-component system
- adhesive for VANDEX FLEXTAPE and VANDEX FLEXTAPE E
- approved for drinking water KTW tested German coatings guideline P3
- excellent mechanical characteristics
- can be applied horizontally, vertically and overhead

### PRODUCT DESCRIPTION

VANDEX FLEXTAPE ADHESIVE TW is a solvent-free, mineral filled, two-component epoxy resin adhesive for use on mineral surfaces. It consists of VANDEX FLEXTAPE ADHESIVE TW RESIN and VANDEX FLEXTAPE ADHESIVE TW HARDENER.

### AREAS OF APPLICATION

VANDEX FLEXTAPE ADHESIVE TW can be used as a general purpose adhesive, as well as for applying VANDEX FLEXTAPE and VANDEX FLEXTAPE E over construction and movement joints (even where movement is significant).

VANDEX FLEXTAPE ADHESIVE TW is chemically inert and stable and can be used in all kinds of cold aqueous environments and cold drinking water structures. Maximum 1% of total wet area may be coated. Not to be used according to EN1504-4.

### PROPERTIES

When fully cured, VANDEX FLEXTAPE ADHESIVE TW is a rigid adhesive. Its pasty consistency ensures good workability even to uneven and overhead surfaces.

### SURFACE PREPARATION

The substrate (mineral surface) must be sound and widely even, open-pored and its surface free of voids, large cracks or ridges. At the time of application, the substrate must not exceed 4% (content by weight) moisture. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance must be removed by suitable means. Concrete substrates must be at least 28 days old.

### MIXING

Mixing ratio:

|                    |    |          |   |
|--------------------|----|----------|---|
| RESIN              | to | HARDENER | = |
| 1 part (by weight) | to | 1 part   | = |
| 3 kg               | to | 3 kg     |   |

The components must be mixed individually before mixed together. VANDEX FLEXTAPE ADHESIVE TW HARDENER is then added to the VANDEX FLEXTAPE ADHESIVE TW RESIN and mixed slowly and carefully together with a mechanical mixer (max. 400 rev/min.). Load the mix into a second tub and mix thoroughly again. The adhesive is ready for application when the mixture exhibits a uniform appearance.

### APPLICATION

VANDEX FLEXTAPE ADHESIVE TW is applied manually by trowel or toothed comb to both contact surfaces of the substrate to be covered with the tape (5 cm on either side of the crack or joint), pressing vigorously to ensure a good bond. Depending on roughness of the surface, layer thickness of VANDEX FLEXTAPE ADHESIVE TW is approx. 1-2 mm. - When the adhesive and the tape are applied together, the tape must immediately be pressed into the adhesive to ensure a good bond, and then coated with a further layer of VANDEX FLEXTAPE ADHESIVE TW on top. See specific datasheets of VANDEX FLEXTAPE and VANDEX FLEXTAPE E for movement joint applications.

VANDEX FLEXTAPE ADHESIVE TW, air and substrate temperature must be between 10°C and 30°C during application and curing time. Substrate temperature must be +3°C above the dew point temperature. Relative air humidity can not be above 80%. Application must be done at constant or falling temperature to avoid blister formation in VANDEX FLEXTAPE ADHESIVE TW by expansion of entrapped air in the substrate.

### CONSUMPTION

In general is 1.8 kg/m<sup>2</sup>/mm required, maybe more due to roughness of substrate.  
Tape width 200 mm: 0.8-1.1 kg per m of tape  
Tape width 150 mm: 0.6-0.9 kg per m of tape

### CURING

After application is good ventilation during curing required. No contact with water during curing.

### PACKAGING

Unit of 6 kg VANDEX FLEXTAPE ADHESIVE TW, consisting of  
FLEXTAPE ADHESIVE TW RESIN = Comp. A = 3 kg  
FLEXTAPE ADHESIVE TW HARDENER = Comp. B = 3 kg

### STORAGE

When stored in a dry, cold and frost-free place in unopened, undamaged original packaging, both components have a shelf life of 12 months.

### CLEANING

In its cured state the VANDEX FLEXTAPE ADHESIVE TW adheres strongly to the substrate. For this reason it is important to clean all tools with a solvent before it hardens.

## HEALTH AND SAFETY

VANDEX FLEXTAPE ADHESIVE TW is exclusively for professional users. Local regulations of trained users handling Epoxy resins must be observed.

Germany: DGUV Regel 113-012: Tätigkeit mit Epoxidharzen.

Please refer to Safety Data Sheet on [www.vandex.com](http://www.vandex.com).

| TECHNICAL DATA  |  |  |             |                                      |            |
|---|--|--|-------------|--------------------------------------|------------|
| <b>Properties of single components</b>  |  | <b>FLEXTAPE ADHESIVE TW RESIN</b>  |             | <b>FLEXTAPE ADHESIVE TW HARDENER</b> |            |
| Consistency 25°C EN ISO 2884-1:2006   |  | pasty  |             | pasty                                |            |
| Colour  |  | grey   |             | grey                                 |            |
|   |  |  |             |                                      |            |
| <b>Application properties</b>   |  | <b>VANDEX FLEXTAPE ADHESIVE TW</b>   |             |                                      |            |
| Consistency   |  | thixotropic paste  |             |                                      |            |
| Colour  |  | grey   |             |                                      |            |
| Density 23°C/50% air humidity [kg/l]  |  | approx. 1.8  |             |                                      |            |
| Pot life at 50% air humidity  |  | Ambient temperature:   | +10 +°C:    | +20 +°C:                             | +30 +°C:   |
|   |  |  | 90-120 min. | 40-60 min.                           | 20-30 min. |
| Application temperature [°C]  |  | from +10 to +30  |             |                                      |            |
| Curing time to full mechanical load at 50% air humidity   |  | Substrate temperature:   | +10 +°C:    | +20 +°C:                             | +30 +°C:   |
|   |  | Over coating times   | 12-30 hours | 8-24 hours                           | 4-15 hours |
|   |  | Full load capacity after:  | 10 d        | 7 d                                  | 3 d        |
|   |  |  |             |                                      |            |
| <b>Final properties</b>   |  | <b>VANDEX FLEXTAPE ADHESIVE TW</b>   |             |                                      |            |
| Bonding strength concrete EN1542 [N/mm <sup>2</sup> ]   |  | break in concrete  |             |                                      |            |
| Shore hardness ISO 7619-1:2012  |  | D 83-87  |             |                                      |            |
| Modulus of elasticity EN13412 [N/mm <sup>2</sup> ]  |  | 10'000-12'000  |             |                                      |            |
| Compressive strength EN12190 [N/mm <sup>2</sup> ]   |  | 75-80  |             |                                      |            |
| UV resistance   |  | Change of tone of colour and chalking must be expected   |             |                                      |            |
| Chemical resistance - fully cured   |  | Water, seawater, wastewater, diluted acids, many alkalis, salt solutions, mineral oil, grease and fuels, many solvents (possibly change of colour tone). Trials are recommended. |             |                                      |            |
| All data is averaged from several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values. |  |  |             |                                      |            |

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.