## **PRODUCT DATA SHEET**

# Delta Fix Adhesive



## **Description**

Delta Fix Adhesive is formulated as a two-component anchoring injection system in a 1:1 ratio for bonding & anchoring most building materials e.g. brick, stone, steel, mortar & timber.

Delta Fix Adhesive formulation is derived from pure epoxy with very high bond strength is used for high performance structural applications where loading is critical.

Suitable for fixing bolts and penetrations through waterproof coatings to provide a waterproof seal.

### **Features**

- · Ideal for bonding building materials
- · Ideal for anchoring building materials
- · Suitable for high loads featuring large diameters and deep embedments
- · High durability, resistance to chemicals
- · Can be used for diamond drilled holes
- · Solvent free resin
- Fixings in concrete, wood, or other high strength materials

## Specification

· BS 8102:2022 Protection of below ground structures against water ingress. Code of practice.

# **Characteristics**

Delta Fix Adhesive is colour coded for visual assurance that the two components are fully mixed. \*The colour, but no other ingredient, may be changed at the manufacturer's discretion. The change will not affect the cured product in any way.

## **Product Details**

DMS 018

## **Pre-Treatment**

Prior to the application of Delta Fix Adhesive all surfaces must be free from dust, oil, rust, and grease. Any loose materials must be removed back to a sound surface.

## **Mixing**

When supplied in cartridge form the mixing takes place in a static spiral mixer nozzle, which delivers the mixed product to the required surface. When supplied in pots, all of the resin must be mixed with all of the hardener. Under no circumstances should part mixes be used. Mix the two components thoroughly until a consistent, no streaky colour is achieved. When using cartridges, extrude Delta Fix Adhesive onto a surface until a consistent non-streaky colour is achieved.

#### **Associated Products**

- DMS 044 Delta Fix Mixer Nozzles
- DMS 043 Delta Fix Adhesive Twin Cartridge Applicator





## **PRODUCT DATA SHEET**

# Delta Fix Adhesive

## **Technical Data**

Delta Fix Adhesive	
Colour	Red/Grey
Mixed Colour	Red/Grey
Density	.43 kg/m²
Compressive Strength	88 N/mm² (EN ISO 604)
Storage	This product should be stored between +5°C & +25°C. Avoid Direct Sunlight. The Shelf life of the product is 24 months from the manufacture date.
Packaging	400ml side-by-side cartridge
Cleaning	The method of application cuts cleaning to a minimum but should it be necessary to clean then use of a suitable resin cleaner should be employed: cured Delta Fix Adhesive will require removal by chipping or other mechanical means.

## **Working and Hardening Times**

Base Material Temperature	5°C	15°C	25°C	35°C	40°C
Gel Working Time	100'	60'	40'	25'	20'
Curing Time Dry Concrete	40 hrs	24 hrs	11 hrs	9 hrs	8 hrs
Curing Time Wet Concrete	x 2	x 2	x 2	x 2	x 2

# Typical Tensile Performance - Standard Embedment Depth

Concrete, C20/25, 5.8 Grade Studding						
Size	Recommended Load (kN)		Spacing (S <sup>cr</sup> , <sup>N</sup> ) Drill Hole ø		Fixing Hole ø	Setting Depth
	Tension (N <sup>rec</sup> )	Shear (V <sup>rec</sup> )	(mm)	(mm)	(mm)	(mm)
M8	9.07	5.14	160	10	9	80
M10	14.36	8.57	200	12	12	90
M12	20.86	12.00	240	14	14	110
M16	38.86	22.29	320	18	18	125
M20	60.64	34.86	400	22	22	170
M24	87.43	50.29	480	28	26	210
M30	138.93	81.43	600	35	32	280

## **Typical Performance in Aerated Concrete**

Characteristic values of resistance under tension & shear loads for Autoclaved Aerated Concrete. Compressive strength of material fb > 6MPa Temp range -40 to +40 C degree.

Size	Condition:	d/d	w/w & w/d	d/d, w/w & w/d
	H <sup>ef</sup> (mm)	Tension (kN)	Tension (kN)	Shear (kN)
M8	80	2	1.5	5
M10	90	3	2.5	8
M12	100	4	3.5	8
M16	100	5.5	4.5	8

 $^{*}$ Note: The values are valid for steel 5.6 or greater. For steel 4.6 and 4.8 multiply VRK,b by 0,8

## Other Information

All data and information contained in these Product/Technical Data Sheets is up-to-date and correct as at the date of issue. The information given is suggested as guidance and should only be used for evaluating your specific application. Delta Membrane Systems Limited cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. The information contained in these Product/Technical Data Sheets should not be considered a warranty, expressed, or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose. In no event shall Delta Membrane Systems Limited be liable for any incidental or consequential damages resulting from the use, misuse, or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory. When in doubt, contact Delta's Technical Team on 01992 523 523.

