

PERMA ANCHOR FIX - 80



HIGH STRENGTH THIXOTROPIC POLYESTER GROUT

DESCRIPTION

Perma Anchor Fix - 80 is a polyester resin based grout which is used in locations where very high early and ultimate strengths are required along with chemical resistance properties. The product is supplied in pre measured two component units.

PRIMARY USES

PRIMARY USES

Anchor Fix - 80 is used for installation of dowel bars in concrete and for providing starter bars in RCC structures for continuation structural concrete or in extension of structural members. Anchor Fix-80 can be used for fixing foundation bolts, base plates and rail tracks. Because of its thixotropic nature the product is successfully used in vertical horizontal as well as in over-head applications.

DIRECTION FOR USE

- Drill the holes for anchor with hammer drills so that holes with rough internal surface are obtained.
- Clean the holes to be grouted with compressed air so that the holes are free from any loose ground material, which could affect the bond of the surface with the grout.
- Mix the two components of Anchor Fix - 80 thoroughly to obtain an uniform consistency smooth paste.
- Fill the hole with this paste taking care to see that the hole is filled effectively from the bottom to avoid any entrapped air in the hole.
- Insert the dowel rod, anchor or bolt in the filled hole and hold it in position till it has become firm.
- Tool the mouth of the hole to make an even and smooth surface.

PROPERTIES

Product	: Two component
Liquid	: Straw colored resinous liquid
Powder	: Free flowing white powder
Flash Point of the liquid	: 29 °C
Application temperature	: 5 °C to 40 °C
Service temperature	: -20 °C to 60 °C

GEL TIME

Ambient Temperature °C	Gel Time Mins	Min Time Before loading Hrs
20	15	7
30	5	4
40	3	3

COMPRESSIVE STRENGTH

In 4 Hours	:	20 N/mm ²
In 24 Hours	:	50 N/mm ²
After 7 days	:	90 N/mm ²
Tensile strength	:	30 N/mm ²

COVERAGE

Anchor Fix - 80 gives a paste of density 2.20 Hence one kg Anchor Fix gives a paste of 455 CC volume. The quantity of Anchor Fix -80 required for anchoring various diameter bars in various diameter holes is as follows :

QTTY ANCHOR FIX - 80 REQUIRED IN GMS FOR 100 MM BOND

Bolt Dia	12mm	16mm	20mm	25mm	32mm	40mm
Hole Dia	-	-	-	-	-	-
20MM	44	25	-	-	-	-
25MM	83	64	39	-	-	-
32MM	152	133	108	69	-	-
40MM	-	232	208	169	100	-
50MM	-	-	363	324	255	156

NOTE : For effective anchoring the hole diameter should be atleast 4mm more than the anchor diameter and should not be more than 25mm of the anchor diameter.

CHEMICAL RESISTANCE

Cured Anchor Fix - 80 is resistant to fresh and saline water, petrol, diesel, oil, grease and most solvents, acids and alkalies.

ANCHOR DESIGN

Anchor Fix - 80 is capable of holding heavy loads but the failure occurs in concrete, brick work, rock etc. in which the anchorage is provided. However loads which the Anchor Fix - 80 withstands with 16mm anchor in 20 mm dia hole, considering the general structural bodies in which anchorages are provided are as follows :

Embedded Length	Failure load Tonnes
100	3.5
200	8.5
400	18.0
600	30.0

NOTE :

A minimum factor of safety of 2 should be considered in all anchoring designs. Strength of the body in which the anchoring is provided should always be the guiding factor in anchor design. Above 60°C the Anchor Fix - 80 start softening. Hence Anchor Fix - 80 should not be utilized in places where temperatures are expected to rise over 60°C.

PACKAGING

Anchor Fix - 80 is available in 250gm and 1 Kg packing apart from bulk on special request.

HEALTH AND SAFETY

Anchor Fix - 80 should be handled carefully. Use of mask and hand gloves recommended. Avoid the contact of the product with the skin. Work in a well ventilated area. The product being flammable, should be kept away from flame and smoking in vicinity of application are should be prohibited.

EQUIPMENT CARE

All equipment must be cleaned immediately use with cleaning solvents. Similar procedures should be adopted for break periods.

SHELF LIFE

6 Months from the date of manufacture if stored in original packing.

QUALITY ASSURANCE

All "PERMA" branded products are manufactured under strict quality control supervision as per exact manufacturing specifications. Should you find the behaviour of the product varying from the claims in the data sheets please stop the use of the product and contact the nearest Perma Staff or nearest Perma distributor.

STATEMENT OF RESPONSIBILITY

PERMA branded products when used in accordance with its current published directions for use perform as per its data sheets / catalogues. The manufacturer and the Distributor will not be responsible for other materials and conditions of inferior workmanship.

PERMA CONSTRUCTION AIDS PVT. LTD.

611 / 612, Nirmal Corporate Centre,
Mulund (W.), Mumbai - 400 080, INDIA.
Tel.: 91-22-2591 8911 / 2590 3008
Fax : 91-22-2567 4690
E-mail : info@permaindia.com
Visit us at : www.permaindia.com

DISTRIBUTOR ADDRESS

An ISO 9001 Company