

TECHNICAL DATA SHEET

DF-R105 | DF-H205

CRACK & FIX



PRODUCT DESCRIPTION

Crack & fix is a room temperature curing epoxy system suitable for concrete primer, epoxy Injection grouts, epoxy mortars, repairing compound and as binder between old and new concrete. Low mix viscosity of system permits high filler loading and exhibit outstanding mechanical and chemical resistance properties. It is a multi purpose system for various civil Applications.

APPLICATION

- Primer
- Grout
- Mortar/grout
- Self leveling floors
- Waterproofing
- Sealing of cracks in concrete structure coating of civil structure, anti corrosive coating for steel bars

ADVANTAGES

- Good vibration damping properties.
- Excellent adhesion to metal and concrete.
- Resistance to oil, fuels and many chemicals.
- Very low shrinkage contributing to good dimensional stability.
- High mechanical strength, both tensile and compressive,

DF R-105 RESIN

Description	Visual	Clear liquid
Colour	ASTM D 1209	1 (GS)
Viscosity @25°C	ASTM D 2196-05	500 – 1000 MPas

Above mentioned properties are for information only.

DF H-205 HARDENER

Description	Visual	Greyish black paste
Colour	ASTM D 1209	Max 10 (GS)
Viscosity @25°C	ASTM D 2196-05	6,000 – 10,000

Above mentioned properties are for information only.

PROCESS PARAMETERS

Mixing ratio	W/W	100 : 50
Mix Viscosity @ 25°C	MPas	800 – 1,200
¹ Pot life	Minutes	60 - 80
Peak Exotherm Temperature	°C	Max 80

¹Pot life of 100gm mix mass at 25°C

AFTER CURE SPECIFICATIONS

Surface Dry of Film	ASTM D 5895	Minutes	300
Touch Dry	ASTM D 5895	Minutes	480
Tensile strength ¹	ASTM D 638	Mpa	42 - 44
Lap Strength @ 25 °C ²	ASTM D 1002	Mpa	4700
Hardness ³	ASTM D 2240	Shore D	> 80

¹Tensile modulus and tensile strength after 24 hours curing at 25°C

²Lap shear strength on prepared aluminum strips after 24 hours curing

³Hardness checked after 24 hours for 45 gms mass at 25°C

HEAD OFFICE:

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SPECIFICATIONS FOR PRIMER

Mixing ratio (A:B)	W/W	100 : 50
Specific Gravity	-	1.05
⁴ Coverage on Concrete	KG/ Sq. m (Per Coat)	0.270 – 0.300
⁴ Coverage on Metal	KG/ Sq. m (Per Coat)	0.210 – 0.250

SPECIFICATIONS FOR MOTAR

⁵ Mixing ratio (A:B:C)	W/W	100 : 50 : 300-400
Specific Gravity	-	1.80
Coverage	KG/ Sq. m (Per Coat) ¹	2
Compressive Strength	KG/ Sq. cm	650 – 800
Flexural Strength	KG/ Sq. cm	400 – 500

SPECIFICATIONS FOR HEAVY MACHINERY'S GROUTING

⁵ Mixing ratio (A:B:C)	W/W	100 : 50 : 400-500
Specific Gravity	-	1.80
Coverage	KG/ Sq. m (Per Coat) ¹	-
Compressive Strength	KG/ Sq. cm	700 – 800
Flexural Strength	KG/ Sq. cm	400 – 500

⁴ Per coat thickness 150μ⁵ Part C is Filler

PROCESSING

SURFACE PREPARATION

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be removed to achieve a level surface prior to the application. Concrete - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open-textured surface by shot-blasting or equivalent mechanical means. Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate.

APPLICATION

Stir part A (resin) and part B (hardener) thoroughly with separate stirrer to get uniform mix mass. Take part A and B in proportion of 100 : 50 (by weight) and mix thoroughly until, homogeneous paste with uniform Colour is achieved. The mix must be used within its pot life.

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DF-R105 | DF-H205**CRACK & FIX****CURING**

Curing normally takes place at room temperature within about 24 hours depending on the ambient temperature but may be accelerated by the application of heat.

PACKING

DF-R105 and DF H-205 is packed differently in each country. Kindly contact nearest D-FIX Distributor for packing list.

STORAGE

Crack & fix should be stored in a cool and dry place, preferably in the sealed container and should not be exposed to direct sunlight. This product has a shelf-life of 2 years, if stored in its original container between 2°C and 40°C away from humidity and excessive heat. This may cause pronounced skin irritation, therefore rubber gloves, eye protection creams and breathing mask are recommended. Please refer to the Safety Data Sheet (SDS) for detailed instructions on storage and handling.

SAFETY

Wear protective equipment. Avoid contact with eyes and skin. Safety Data Sheets (SDS) are available on request. SDS are furnished to customers to provide handling and disposal information.

Disclaimer

All recommendations for use of our products whether given by us in writing, verbally or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Although, the information contained in this sheet is accurate, no liability can be accepted in respect of such information. We warrant only that our product will meet the designated specifications and make no other warranty either express or implied, including any warranty of merchantability or fitness for a particular purpose as the conditions of application are beyond our control.

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