

FARCO FLEX HR-2

Highly Resistant Two Component Joint Sealant

Product Description

FARCOFLEX HR-2 is a two component polyurethane joint sealant which is produced in two types:

1. Pouring: recommended for horizontal expansion joints.
2. Gun grade: recommended for horizontal and vertical expansion joints. · After mixing and application, it chemically cures and an elastic sealant with outstanding resistance to deterioration due to weathering, ozone, ultra-violet light and chemical attack by chemicals present in industrial atmospheres will be gained · HR-2 forms an absolute water-tight seal in reservoirs and sewage works. The material has excellent resistance to biodegradation due to bacterial attack in sewage tanks or reservoirs.

Uses

- Concrete pavement road and industrial floors
- Airport runways
- Joints in crude sewage, sewage sludge and digestion tanks
- Marine structures

Advantages

- High abrasion resistance
- Resistant to Bio - Degradation
- Recommended for immersion joints
- Permanent seal of concrete joints and high resistance to weathering, Ozone and UV- rags

Standard compliance

BS 4254 ASTM C 494-02 TYPE M CLASS 25
TT-S- 00227 E ISO 11600 F - 25 LM

Technical Data

Base	polyurethane
Consistency	Pouring and Gun grade
Specific gravity (Kg/lit)	A: 1.55 ± 0.03 B: 1.07 ± 0.03 A+B: 1.4 ± 0.03
Mixing ratio	3: 1
Pot life (20°C)	2 to 4 hours
Shore A(hardness)	30 ± 5
Elongation	>700%
Tensile strength	>2.5 Mpa

Method of use

Surface preparation

- Concrete surfaces: must be clean and dry. Wire brush thoroughly and remove dust and contaminants.
- Metal surfaces: remove any corrosion or mill scale by grit or shot blast. Degrease the surfaces with cloth soaked in oil free cleaning solvent.
- Wood substrate: must be clean and dry, cut back or abrade where necessary to sound timber

Priming

A single coat of primer should be applied by brush. The primer must be allowed to dry for a minimum period of one hour before applying HR-2 should be applied within 24 hours of priming.

Mixing

- Pour entire content of part B into part A pail and mix for 3 to 5 minutes, using a paddle fitted to a 500 r.p.m electric drill.
- Do not subdivide the components
- Failure to completely disperse curing agent throughout the base compound will result in uncured sealant.



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Application

- HR-2 should be used immediately once mixed.
- Gun with nozzles can be used for easy application
- Tool the sealant with light pressure to spread the material against the joint surfaces, this operation should be made with spatula soaked in a soapy water.
- For good performance, it is essential that the sealant is only bonded to the two facing sides of the joint, to achieve this, install a back up material (closed cell polyethylene

Cleaning

Clean uncured materials with solvent and cured materials mechanically

Coverage

Depth of joint(mm)	Width of joint (mm)				
	10	15	20	25	30
10	10m	6.7m	5	4	3.33
15	-	4.45	3.33	2.67	2.33
20	-	-	2.5	2	1.67
25	-	-	-	1.6	1.33

Joint Dimensions

- Joints width with minimum 5 mm to max 50 mm
- Joints with cyclic movements should have
- Sealant depth shall not exceed joint width width: depth ratio of 2:1

- Minimum sealant depth recommend for : Metals and glass is 5 mm, all porous surfaces are 10mm, joints exposed to traffic and hydrostatic pressures are 20mm.
- 5 mm below flush for joints exposed to traffic

Packaging

Part A: 9 kg ± 30gr

Part B: 3 kg ± 20gr

Part A + Part B = 8.5lit

Storage

Store FARCOFLEX HR-2 in dry condition and at temperatures between 5°c to 30°c.

Shelf life

9 month in original closed packing.

Safety and Handling Precautions

Apply the usual industrial hygiene.

Prevent contact with skin, eyes or clothing.

Wash thoroughly after handling. Do not take internally.

Technical Service

The SHIMISAKHTEMAN Technical Service Department is available to assist you in the correct use of our products in the field.



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