

HYCHEM Hyflex NS



HYCHEM
EPOXY SYSTEMS

Hyflex NS is a flexible, polyurethane modified 2 component epoxy.

USE

Hyflex NS is a fast curing sealant with good chemical resistance for use where conventional 1 component sealants fail to perform. The product is primarily designed for use as expansion and control joints on factory floors where the demands of traffic prevent the use of weaker sealants. The excellent wear resistance of Hyflex NS sealant enables the design of flush joints, thereby preventing joint edge damage from impacting trolleys.

Also, Hyflex NS has excellent resistance to degradation by chlorine, making it a suitable choice for use in swimming pools. Its use as a jointing product for banded areas in the chemical industry can also be considered.

CHEMICAL RESISTANCE

Hyflex NS has good resistance to water and aqueous solutions such as dilute acids, salts and alkalis. Resistance to machine oils and fuels is fair. Hyflex NS is only suitable for short term exposure to solvents.

Acids	Alkalis	Oils	Mechanical Fluids
Hydrochloric 10%	Ammonium Hydroxide 20%	Crude	Skydrol
Nitric 10%	Sodium Hydroxide 20%	Mineral	Brake Fluid
Sulphuric 10%	Potassium Hydroxide 20%	Engine	Petrol
Phosphoric 10%	Bleach	Vegetable	Antifreeze

* These fluids should not be left in contact with Hyflex NS for more than 12 hours.

APPLICATION GUIDELINES

At 23°C

Mix ratio by volume (Resin: Hardener)	1:1
Pot life	45 minutes
Full cure	7 days

Epoxy pigment paste can be added for colour. Add approximately 25 ml per litre Hyflex NS Neutral. Always mix pigment into the resin.

Mechanical properties

Elongation	80%
Tensile Strength	10 MPa
Hardness Shore D	45
Joint movement	+/- 5%

TYPICAL APPLICATIONS

- Motor workshops
- Schools and institutions
- Food and beverage
- Aircraft hangars
- Back of house areas
- Stock and plant rooms

Surface Preparation

Joint edges need to be sound and free of loose friable material. Damaged joints should be cut out and widened, the gap to be filled with an epoxy aggregate mortar. A new joint is then to be cut in the epoxy fill. The HYFLEX joint sealant is applied to the new cut joint.

Concrete Joints in good repair need to be cleaned and primed with a suitable epoxy primer such as HYCHEM E100.

Mixing

- Mix with a jiffy mixer at a speed of 500 rpm to avoid incorporating excessive air into the mix.
- Mix for 1 minute, scrape down the sides of the mixing container and mix for another minute to ensure the mix is homogeneous.

PACKAGING

8 Litre
20 Litre

To determine amount of product required measure the 3 dimensions of the joint (width, depth and length) in cm and multiply together. Then divide by 1000 and this gives the volume in litres.

So, 1cm x 1cm x 100cm = 100cm³

100/1000 = 0.1 litres or 100ml

SAFETY PRECAUTIONS

- Wear gloves, eye protection and overalls during mixing and application.
- Ensure there is adequate ventilation.
- See msds for further details

SHELF LIFE

12 months from date of manufacture when stored under shelter at 25°C and in original un-opened container.

Disclaimer

The technical information and application advice given in this publication is based on the best information available at the time of print. As the information herein is of a general nature, no assumption can be made as to the product suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.



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