

Hychem™ HJ 120

Slab Jacking Resin

Description

Hychem™ HJ 120 is a two-component polyurethane foam system designed for concrete slab lifting, void filling, and subgrade stabilisation. The foam rapidly expands after injection, providing controlled lifting force and high compressive strength for re-levelling and longterm support of concrete slabs. Part A is the isocyanate and Part B is the resin.

Product Data

TYPICAL LIQUID PROPERTIES

The properties in this table are for Hychem™ HJ 120 Part “B”.

Property	Result
Appearance	Clear pale-yellow liquid
Specific Gravity	1.09 – 1.11
Viscosity (20°C)	1450 – 1650 mPas

Technical Data

LABORATORY REACTION PROFILE

The laboratory reaction profile results for mixed Hychem™ HJ 120 at 20°C is shown in the below table.

Property	Result
Cream Time	10 ~ 16 sec
Gel Time	46 ~ 57 sec
Rise Time	87 ~ 108 sec
Free Rise Core Density	115 ~ 125 kg/m ³

TYPICAL PROPERTIES AS SEEN IN THE LABORATORY SAMPLE

Test	Result	Method
Density	115 ~ 125 kg/m ³	ASTM D1622
10% Compressive strength – parallel (119kg/m ³)	> 1000 kPa	AS2498.3
10% Compressive strength – perpendicular (119kg/m ³)	> 900 kPa	AS2498.3
Cross breaking strength	> 2000 kPa	AS2498.4
Water Absorption	< 1 %	ASTM D2842
Dimensional stability (% change)	< 2 %	ASTM D2126

Mixing

Product Part	Mixing Ratio
Hychem™ HJ 120 Part A Isocyanate	100 parts by volume
Hychem™ HJ 120 Part B Resin	100 parts by volume



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Storage and Handling Precautions

STORAGE STABILITY

When opening a container, care must be taken to release any internal pressure slowly. To prevent ingress of moisture, drums must be kept tightly sealed when not in use.

Recommended storage temp: 20 - 30°C. Under these conditions this product has a storage stability of at least 12 months.

PACKAGING

215kg per drum

1000kg per IBC

Safety

In an emergency, contact 000, the Poisons Information Centre (13 11 26 within Australia) or a doctor for advice. Please refer to the current SDS (Safety Data Sheet) and follow the prescribed safety precautions and handling procedures for the product.

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