

HYPERSEAL® -2K-F

Product Data Sheet

Two Component, Pourable Grade Polyurethane Sealant According to SS-S-200E

Description

HYPERSEAL®-2K-F is a two component, horizontal grade polyurethane sealant, ideal for large construction joints. Upon curing, it produces a high performance sealant that also provides significant waterproofing, with excellent resistance to various climatic and temperature conditions. Furthermore, the sealant has very good resistance to chemicals and other severe exposures.

Compliance

The product complies with:

- ASTM C920 (Class 50: +/- 50% movement)
- DIN 18540
- SS-S-200D
- SS-S-200E, Type H (slow curing, hand mixing)

Recommended For

- Sealing of large expansion construction joints
- Sealing of joints in water tanks
- Sealing of joints in Irrigation channels
- Sealing of joints in airport runways

Features & Benefits

- Excellent resistance to ageing, microorganisms, fungi and several chemicals.
- Suitable for potable water (certificate available upon request).
- Over paintable.
- Remains elastic even below -40°C.
- Resistant to both salt water and sweet water.
- Good mechanical properties.
- Resistant to accidental contact with petroleum derivatives according to specification SS-S-200E.
- Special Primers available for almost any substrate.

Limitations

- Not recommended for unsound substrates.

Application

Recommended application temperature range varies between +5°C to +25°C. At higher temperatures, there is a decrease in the pot life of the material.


Ensure that the joint to be filled is thoroughly cleaned and dried prior to application of the sealant.

If the bottom of the joint is open, a polyethylene backing rod (or polystyrene) is inserted so as to leave a depth about half of the width of the joint. Apply a suitable primer depending on the condition of the substrate as well as the climatic conditions at the time of application

- ✓ On porous substrate, use **PRIMER-PU**
- ✓ On humid substrates, use **AQUASMART-DUR or AQUADUR**

HYPERSEAL®-2K-F A & B components are thoroughly mixed and the final product is poured slowly into the joint. Alternatively, the sealant may be applied by spatula or appropriate dispensing gun.

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Precautions
 No problem after fully cured

 Ask for MSDS (Material Safety Data Sheet)


Cleaning

Clean tools and equipment first with paper towels and then wipe by using Acetone or Xylene, etc.


Packaging

- 2 Kg Component A + 4 Kg Component B
- 4 Kg Component A + 8 Kg Component B


Shelf Life

Minimum 1 Year shelf life is stored properly in original unopened Package at a temperature of +/-20°C in dry places.


Consumption

Kg / linear meter of joint

WIDTH \ DEPTH	2cm	4cm	8cm
1cm	0.280 Kg/m	0.560 Kg/m	1.12 Kg/m
2cm	0.560 Kg/m	1.12 Kg/m	2.24 Kg/m


Technical Specifications

Property	Units	Method	Specification
Density, at 20°C	gr/cm ³	ISO 2811 / DIN 53217 / ASTM D1475	1.4
Hardness	Shore A	ISO R868 / DIN 53505 / ASTM D2240	30 ± 5
Service Temperature	°C	-	-40 up to 90
Application Temperature	°C	-	5 up to 40
Tack Free Time at 25°C & 55% RH	hours	-	5
Elongation at Break	%	ASTM D412 / EN-ISO-527-3	>500
Modulus at 100% elongation	N/mm ²	ASTM D412 / EN-ISO-527-3	0.4
Resilience	%	DIN 52458	>80
Toxicity	-	-	No restrictions as cured
Hydrolysis (8% KOH, 15 days @ 50°C)	-	-	No elastomeric property change
Hydrolysis (H ₂ O, 30 days-cycle 60-100°C)	-	-	No elastomeric property change
HCl (PH=2, 10 days @RT)	-	-	No elastomeric property change
QUV Accelerated Weathering Test	-	ASTM G53	Passed (after 1000hr)

For more information on Hyperseal range of products and application methods
Please contact Alchimica Technical Service at info@alchimica.co.in

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