

# REC FLEX 11FS

## FIRE-RATED SINGLE COMPONENT SELF-LEVELING SEALANT

### DESCRIPTION

**REC FLEX 11FS** is a self-leveling, single component, fire-rated sealant for use without a primer on many common non-porous building substrates. This unique low modulus sealant possesses excellent fire sealing properties, adhesive strength, and high movement capabilities, making it ideal to perform as smoke seal to prevent spread of smoke between floors in case of fire.

### PRIMARY APPLICATIONS

- The fire and smoke sealing of floor to floor and floor to wall linear joints in fire rated floors.

### FEATURES/BENEFITS

- One-part low modulus sealant.
- Cures at room temperature when exposed to moisture in air.
- Neutral cure, halogen-free.
- Easy to apply: flowable and self-leveling: no tooling required.
- Excellent unprimed adhesion to many substrates.
- Excellent weathering characteristics, including resistance to ozone, UV radiation and temperature extremes.
- Long service life.
- Stable and flexible from -50°C to +180°C.
- Non-corrosive to metals.

### TECHNICAL INFORMATION

|                                           |                       |
|-------------------------------------------|-----------------------|
| Colors                                    | Black                 |
| Viscosity (ASTM 0050)                     | 28,000 mPa·s          |
| Density (ASTM 0097B)                      | 1.3 g/cm <sup>3</sup> |
| Skin Over Time (23°C, 50% RH) (ASTM 0098) | 25 minutes            |
| Tensile Strength (ASTM D412)              | 0.7 MPa               |
| Elongation at Break (ASTM D412)           | 300 %                 |
| Modulus at 100% (ASTM 0137A)              | 0.21 MPa              |
| Shore A Hardness (ASTM D2240)             | 28                    |
| Application Temperature                   | +5 to 40 °C           |
| Service Temperature                       | -50 to +180 °C        |
| Fire Reaction Rating (EN13501-1)          | Class E               |
| Fire Resistance Rating (EN13501-2)        | Up to EI 240 min      |
| Joint Movement Capability (ISO 11600)     | +/- 35%               |
| Volume of Solids                          | > 95%                 |
| VOC                                       | 36 g/L                |

## **DIRECTIONS FOR USE**

### **a. SURFACE PREPARATION**

Good surface preparation is essential for proper adhesion. Before application, make sure the surfaces are clean, dry, sound, free from dust, dirt, oil, grease, old sealant, laitance, frost and loose material.

Metal surfaces should be properly cleaned and degreased. Where required, use grit blasting or another suitable mechanical cleaning method. Suitable cleaning solvents may include Isopropyl alcohol, Acetone or REC Cleaner.

Note: Always follow the safety instructions for the selected solvent and provide adequate ventilation.

New concrete or cement-based substrates should generally be 7–28 days old and have a moisture content of 5% or less before application. Remove laitance using suitable mechanical methods such as light grinding and light grit blasting. The surface must then be cleaned thoroughly.

Existing concrete must be strong, clean and suitable for bonding. Remove oil, grease, dust, dirt, loose concrete, existing coatings, old sealant and other contaminants if there is any. Mechanical cleaning is recommended, especially where heavy contamination is present.

### **b. ADHESION AND PRIMER**

**REC FLEX 11FS** provides good adhesion to many common construction substrates. For concrete and cement-based surfaces, use **REC Primer** where required for optimum adhesion. For unusual or difficult substrates, carry out an adhesion test before full application. Please contact technical department of RECKON CHEMICALS PVT Ltd. Lahore for guidance.

### **c. BACKING MATERIAL**

Mineral wool is the recommended backing material for the tested fire-rated joint systems. Select the backing thickness, density and compression according to the required joint width, sealant depth, fire rating and joint movement. Do not substitute the backing material without confirming its suitability for the required fire-rated system.

### **d. MASKING**

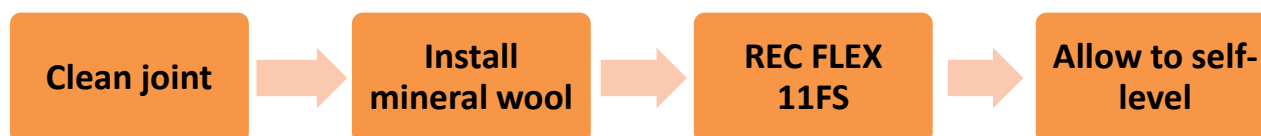
Before applying the sealant:

- i. Apply masking tape to the areas next to the joint.
- ii. Apply **REC FLEX 11FS**.
- iii. Remove the masking tape immediately after application. This helps produce a clean and straight joint.

### **e. APPLICATION**

Do not apply **REC FLEX 11FS** when the surface temperature is below 5°C (41°F). Plus, the surface must be dry and free from frost. Ensure the joint is clean and properly prepared. Install the mineral wool backing to the required depth. Apply primer where required. Pour **REC FLEX 11FS** into the prepared joint. Fill the joint to the required sealant depth. The product is self-leveling and normally does not require tooling. Where necessary, spread the sealant evenly using a trowel or wide scraper. For suitable cavities, the product may be poured directly into the opening.

#### **Flow Chart of Typical Installation**



### **f. CLEANING AFTER APPLICATION**

Remove excess uncured sealant from tools, non-porous surfaces and adjacent areas. Use a suitable cleaner such as REC Cleaner. For porous surfaces, allow the sealant to cure and then remove excess material mechanically by scraping, abrasion or another suitable method.

## **PACKAGING**

**REC FLEX 11FS** is available in different quantity and can be supplied on demand.

## HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

## STORAGE

**REC FLEX 11FS** has a shelf life up to 12 months when stored in warehouse conditions below 30°C in the original, unopened packs.

## QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and quality management system to ensure consistency and quality.

## DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's head office located in Lahore.

**WARRANTY:** The Reckon Chemicals (Pvt.) Ltd. (Reckon) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Reckon, no other representations or statements made by Reckon or its representatives, in writing or orally, shall alter this warranty. Reckon MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Reckon product fails to conform with this warranty, Reckon will replace the product to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Reckon does not authorize anyone on its behalf to make any written or oral statements which in any way alter Reckon's installation information or instructions in its product literature or on its packaging labels. Any installation of Reckon products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Reckon's products for the Buyer's intended purposes.

RECKON CHEMICALS PRIVATE LIMITED  
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE  
Tell: +92-42-35452620, +92-42-35230419  
Web: [www.reckonchemicals.com](http://www.reckonchemicals.com)  
Email: [Info@reckonchemicals.com](mailto:Info@reckonchemicals.com)

