

Resiflex FC 33

Flexible PU Sealant / Mastic in 600ml Sausages

Description

Duram Resiflex is a fast cure, flexible, high modulus, construction grade, polyurethane joint sealant in 600ml sausages.

Uses

Duram Resiflex FC 33 is used to seal and provide waterproofing to: Joins, gaps, corners (fillets), penetrations, cracks, bonding tiles and ridge tiles and bonding plastic and metal angles to concrete, timber and FC sheeting substrates.

Suitable Surfaces

Concrete, cement, terracotta and earthenware, anodised aluminium, most metals, timber, brick and block work. Generally adheres to most surfaces without priming but they must be sound, dry, clean and free of dust, contaminants and loose matter. If in doubt, prime surface with Duram Primeseal.

Specification

The information contained in this product data sheet is typical but does not constitute a full specification as conditions and specific requirements may vary from project to project. The instructions should be considered as a minimum requirement but the applicator or contractor must use their skill, knowledge and experience to carry out additional works as may be necessary to meet the requirements of the project. Specification for specific projects should be sought from the Company in writing.

Limitations

Not designed for long term direct exposure to sun light.

Benefits and Advantages

- » Fast cure
- » Single pack - in 600ml sausages.
- » Easy to use.
- » Tools off easily
- » Flexible
- » Compatible with Duram waterproofing membranes.
- » Excellent adhesion.
- » Paintable

Precautions in Use

Avoid contact with skin. In the event of contact with eyes, clean immediately with water and obtain medical attention. Use in well ventilated areas. Keep away from flame and sources of ignition. Contains isocyanates.

Priming and Surface Preparation

Good preparation is essential. Surfaces must be sound, stable, dry, clean and free of dust, loose, flaking, friable material and substances that may diminish adhesion.

- Remove either mechanically or by manual wire brushing or other means any loose material, contaminants and other adhesion reducing agents such as rust, dust, friable matter, wax, oils and grease.
- New concrete should be allowed to cure for 4 weeks.
- A preliminary test must be done on siliconised tiles. Users must determine compatibility with surfaces, adhesion and staining.

Application

Apply sealant in continuous strip with enough pressure to properly fill and seal the joint, crack, corner or gap.

Corner fillets should extend at least 10mm along both the vertical and horizontal surfaces at a 45 degree angle and at least 5mm beyond the base rung of mortar.

Allow to at least skin before applying Multithane or Duram 195 over it. Resiflex FC 33 should be fully cured if applying

water based membranes over it.

If used to bond tiles, metal or timber surfaces must be supported for up to 15 hours if weight exceeds 8kg per m².

Clean up: Use white spirits while still wet. If cured then remove mechanically or manually by scraping.

Painting: The joint can be painted when cured with conventional acrylic or vinyl paints but preliminary tests should be done. Joint movement may result in the paint cracking.

Other Information:

Please refer to the data sheet on Duram Leak-Seal Tape for the waterproofing of joints, cracks and gaps.

Coverage

The stated average coverage rate may vary depending upon type, condition, porosity, texture of the surface and application technique.

Approximate coverage (strip length) per 600ml sausage:

Joint Depth (in mm)	Joint Width (in mm)	Joint Width (in mm)	Joint Width (in mm)	Joint Width (in mm)
	4	6	8	12
4	36	25	19	12
6		16	12	8
8			9	6
10				5

Colours

Current stocks are grey. However, the product is available in white, tile, or black if quantities are sufficient.

Drying and Curing

Drying and curing of the product is affected by type, dryness and porosity of the surface, temperature, humidity, ventilation, climate conditions and application technique and therefore drying and curing can only be given as a guide.

Skin Formation: Approx. 45' at 23°C, 50% RH.

Rate of Cure: > 3mm / 24hrs at 23°C, 50% RH

Application Temperature: + 5°C to 40°C

Service Temperature: -20°C to 80°C

Storage

Store in cool and dry area. Protect product from damage. Product will cure if exposed to air. Shelf life: Up to 12 months in unopened and undamaged containers. Packaging: 600ml sausages packed 20 to a carton.

Clean Up

Whilst wet, clean with white spirits. If cured, remove mechanically or manually by scraping. It may not be possible to remove all of the contents.

Tiling, Topping or Top Coating

Not applicable.

Safety & Precautions

Use for intended purpose only. Observe good industrial hygiene. The use of rubber gloves is recommended. Product is flammable. Keep all sources of ignition away. Use in well ventilated areas. If on skin, wash immediately with soap and water. If in eyes, immediately flush thoroughly with clean water and seek urgent medical attention. Product is very thick, so splashes is unlikely. Introduction to eyes most likely by contact with product via hands. Inhalation is unlikely, but remove person to fresh air and seek urgent medical attention.

For full safety data refer to the products Material Safety Data Sheet. Observe precautions as per label.

Tests and Technical Data

Application Temperature: +5°C to 40°C
Service Temperature: -20°C to 80°C.
Specific Gravity: 1.30

Hardness Shore A 35-40
Modulus ISO 8339 @100% 0.35 - 0.45 Mpa
Elongation at break ISO 8339 250%
Resistance at break ISO 8339 0.6 Mpa
Movement capability 25%

Material Safety Data Sheet

Resiflex FC 33

Flexible PU Sealant / Mastic in 600ml Sausages

Classified as a hazardous material according to the criteria of the NOHSC.

Identification

Product Name: Resiflex FC 33
Other Names: Duram Resiflex FC33;
PU Sealant
U.N. Number: 1263
Class: III
Hazchem 3[Y]
Code:
Poison 6
Schedule:
Pack Sizes: 600ml
Sausages.Cartons of
12 sausages

Physical Description

Appearance: Coloured high
viscosity liquid.
Boiling Point: Approximately
300oC
Vapour
Pressure: Approximately 6.00
(Xylene)
Percent
Volatiles: +-40%
Specific
Gravity: +-1.05
Flash Point: 28oC (Xylene)
Flammability: 1.1-7.0%
Water
Solubility: Insoluable.

Ingredients

Chemical	CAS No.	Proportion
Fillers - Calcium carbonate	N/A	< 30%
Aliphatic urethane in Aqueous solution	N/A	< 10%
Acrylic Copolymer Emulsion	N/A	< 40%
Minor ingredients	N/a	< 3%
Water	7732-18-5	< 10%

Uses:

Resiflex FC 33 used in conjunction with Duram membranes is ideal to waterproof most applications within the building and construction industry, including:
Shower and other wet areas.

Health Warning Information

Health Effects

Swallowed: Ingestion could cause irritation and burning sensation.

Eyes: Irritation and burning. Long term exposure can cause damage.

Skin: Irritation burning sensation.

Inhaled: Irritation with asthma like symptoms. It is unlikely that the product would be inhaled due to its viscosity. Inhaled matter is likely to be Xylene.

First Aid

Swallowed: Do not induce vomiting. Give milk or water to drink seek medical advise.

Eyes: Flush eyes with copious amounts of clean water.Seek medical attention.

Skin: Wipe product off skin, Wash skin with soap and water. Apply moisturising cream.

Personal Protection: The use of solvent resistant gloves, coveralls and goggles (against splashes) are recommended. keep flame sparks and sources of ignition away from uncured product.

Advice to Doctor

Treat Symptomatically.

Precautions in Use

Follow normal good industrial hygiene and chemical precautions, particularly in respect of flammability. Use in well ventilated areas and provide flame proof artificial ventilation if required to maintain concentrations below xylene exposure standard of 350g/m² (TWA) 655 mg/m² (STEL) or 100ppm.

keep sparks and ignition sources away from product during application, as product is flammable.

Ventilation

Good ventilation is recommended.

Personal Protection

The use of solvent resistant gloves, coveralls and goggles (against splashes) are recommended. keep flame, sparks and sources of ignition away from uncured product.

Vapours may collect in low-lying areas. insure adequate ventilation.

Safe Handling Information

Storage and Transport

Store in a cool dry place, away from direct sunlight and ignition sources.

Spills and Disposal

Discard to suitable landfill in accordance with local council regulations.

Disposal: Shovel into drums, incinerate or land tip in accordance with local regulation.