



Balcony Waterproofing System

RESOFLEX

DESCRIPTION AND USES

A unique coating system specifically engineered to protect steel reinforced concrete structures subject to light to moderate traffic.

RESOFLEX consists of a two-component, high solids elastomeric polyurethane compound and a synthetic aggregate capable to bridge post application cracks which can develop in reinforced concrete balconies.

CHARACTERISTICS

- Extended pot life for easier workability
- Packaged in kit form for fast error free mixing
- Outstanding resistance to ultraviolet exposure
- Synthetic aggregates are colored to match binder and rise to coating surface to create an easy to walk on surface

APPLICATION INSTRUCTIONS

Surface preparation

Substrate must be clean, hard, dry, free of oil, grease, wax, paint, curing membranes or any other contaminant.

Concrete: Abrasive blast or other mechanical preparation, depending upon conditions.

Metal: Sandblast.

Application

Primer
Use DUOCEL 4 or DUOCHEM 6030 if surface is porous.

Mix A and B components in proper mixing ratio as supplied with mechanical mixer. Apply to prepared concrete substrate with roller at an application rate of 11.5 m²/l (470 ft²/US gallon).

Allow 2 to 24 hours to cure before overcoating with RESOFLEX.

Resoflex

Empty content of RESOFLEX part B into part A container. Mix for 3 minutes with mechanical mixer. Spread with notched squeegee and backroll with a 12 mm (1/2") nap roller to achieve 675 microns (27 mils) wet film thickness. A 45 cm (18") wide roller provides best results.

PRECAUTIONS

- Consult Material Safety Data Sheet prior to use.
- Do not apply material at temperatures below 5°C (41°F).

TECHNICAL INFORMATION

Color:	Grey and beige	
Solids content:	Per volume	85 %
	Per weight	88 %
V.O.C.:	143 g/l (1.2 lbs/US gallon)	
Mixing ratio:	5 parts A to 1 part B (hardener) per volume	
Pot life:	75 minutes	
Suggested primer:	DUOCEL 4 or DUOCHEM 6030 for porous surfaces	
Application method:	Notched squeegee and roller	
Number of coats:	1 on most surfaces	
Recommended thickness per coat:	700 microns wet (28 mils)	
	600 microns dry (24 mils)	
Coverage:	1.4 m ² /l – 7.9 m ² /kit (57 ft ² /US gallon – 86 ft ² /kit)	
Curing time:	Touch dry	16 hours
	Full cure	16 hours
	If still tacky, wash with water	
Thinning solvent:	Do not dilute RESOFLEX	
Cleaning solvent:	DUOCHEM 208	
Shelf life:	6 months in original unopened container	
Packaging:	5.67 litres (1.5 US gallon)	

TECHNICAL DATA



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PHYSICAL PROPERTIES

<u>PROPERTIES</u>	<u>TEST METHODS</u>	<u>RESULTS</u>
Tensile resistance	ASTM D-638 Type IV	4.1 MPa (595 psi)
Elongation at break	ASTM D-638 Type IV	250%
Tear strength	ASTM D-624 Die C	17.8 N/mm (101.6 lbs/in)
Abrasion resistance	ASTM D-4060 Taber Abraser CS-17 Wheels 1000 g/wheel 1000 revolutions H-22 Wheels 1000 g/wheel 1000 revolutions	97 mg loss 316 mg loss *
Bond strength	ASTM D-4541 On concrete On primed concrete	2.5 Mpa (363 psi) 2.2 Mpa (320 psi) Failure in coating in all cases
Water vapour transmission And permeance	ASTM D-638 Water method	0.3 g/h•m ² 1.56 perm (89.5 ng/P•s•m ²)
Static coefficient of friction	ASTM C-1208 Dry surface Wet surface	0.82 0.65

* Standard 28 MPa concrete exhibits 3,872 mg loss when tested as per this procedure.

Test report available upon request.

This information is based on tests we believe to be reliable. Since conditions of use are beyond our control, we do not assume any liability except the replacement of an equal quantity of any product which is proven defective and for which we are responsible.