



ASIA'S LEADING
BUILDING PROTECTION
SPECIALIST

FORMCEAL TYPE-R

SINGLE COMPONENT ROOT-RESISTANT POLYURETHANE
WATERPROOFING MEMBRANE

DATA SPECIFICATION SHEET

DESCRIPTION

Formceal Type-R is a single component pure polyurethane elastomer liquid-applied waterproofing membrane with root resistant properties. It is a high performance membrane and forms a permanently flexible, tough, high build waterproofing barrier.

Formceal Type-R is used as a concealed system. It is applied directly from the pail using brush, roller, squeegee or airless spray. It is seamless and takes to the shape of the surface it is applied on. Formceal Type-R is ideal for use in planter boxes/landscape areas with ground covers, shrubs, turfings.

FEATURES

- Self-priming single component
- Does not contain tar or bitumen
- Easy to apply
- Seamless
- Excellent physical properties
- Root-resistant

AREAS OF USAGE

- Concealed systems - roofs, decks, etc.
- Planter Areas - planter box, landscape decks, roof gardens - with no trees
- Wet Areas - toilets, kitchen, balconies, shower etc.
- Others - basements, retaining walls, water features, non-potable water tanks, etc.

PRODUCT SPECIFICATION

PACKING	: 25 kg / pail
SOLID CONTENT (SS133)	: ≥80%
DRY FILM THICKNESS	: Approximately 1mm
RESISTANCE TO WATER PENETRATION (DIN 1048)	: 0 mm
SHORE A HARDNESS (ASTM D2240)	: ≥50
WATER VAPOUR TRANSMISSION (ASTM E96)	: 10.8 g/m ² /24 hrs
CRACK BRIDGING (ASTM C836/C836M)	: No cracks @ 2 mm width
TENSILE STRENGTH (ASTM D412)	: ≥2 N/mm ²
ELONGATION (ASTM D412)	: ≥300%
ROOT RESISTANCE (DIN 4062/PD CENT/TS 14416)	: Yes
ADHESION TO SUBSTRATE (ASTM D4541)	: ≥1.3 N/mm ²
VOLATILE ORGANIC CONTENT (ISO-11890-2)	: 25.3 g/L
QUV ACCELERATED WEATHERING (1000hrs) (ASTM G154)	: No cracking, chalking, blistering or peeling decay & delamination was observed



APPLICATION

SUBSTRATE PREPARATION

All surfaces to receive waterproofing membrane shall have a sound, smooth and free from dust, laitance, loose matter, oil or other contaminants. Concrete should be cured 28 days and render for 7 days.

APPLICATION

Primer - not required

Application of Formceal Type-R

- Apply Formceal Type-R by brush, roller, squeegee or airless spray.
- Application rate is 1 kg/m² x 2 coats.
- This can be applied in single coat at 2 kg/m²
- If application is in 2 coats, allow first coat to dry fully for at least 3 hours before the application of second coat.
- Allow membrane to cure for 24 hours before ponding test.

PONDING TEST

Ponding test can be carried out 24 hours after application of final coat.

STORAGE/SHELF LIFE

Do not store product exposed to sun or weather. When kept in cool, dry, protected area, sealed pails have a 12 months shelf life. Once opened, content may solidify within a few days.

HEALTH & SAFETY

Read the product label and Material Safety Data Sheet (SDS) before use. Users should acquaint themselves with all risk and safety phrases.

Place Product
Sample Here

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Revision A

All data given and statements and recommendations made herein are base upon our research and experience and are believed to be accurate. However, no guarantee of their accuracy is made or applied. This data specification supersedes all other issues.