

# FORMCEAL TYPE-R ROOT RESISTANT LIQUID APPLIED WATERPROOFING MEMBRANE

ASIA'S LEADING BUILDING PROTECTION SPECIALIST



# FORMCEAL TYPE-R

ROOT RESISTANT LIQUID APPLIED WATERPROOFING **MFMBRANE** 

FORMCEAL TYPE-R IS A SINGLE COMPONENT; LIQUID APPLIED WATERPROOFING MEMBRANE THAT OFFERS ROOT RESISTANT AND WATERPROOFING PROTECTION TO THE AREAS IT IS APPLIED ON.



BEDOK INTEGRATED COMPLEX - SINGAPORE

#### PRODUCT DESCRIPTION

Formceal Type-R is a single component pure polyurethane elastomer liquid-applied waterproofing membrane with root resistant properties. It does not contain tar or bitumen and will not bleed or stain. It is a high performance membrane and forms a permanently flexible, tough, high build waterproofing barrier.

#### SPECIAL FEATURES

#### **Root-Resistant**

Formceal Type-R is a concealed root-resistant waterproofing membrane.

#### **Cost Effective**

Provides an economical and cost effective waterproofing method for planter boxes and landscape areas with shrubs and ground covers.

#### Seamless

Easily applied using brush or roller. This eliminates potential failure due to poor joints, ideal for irregular shape areas that requires a lot of detailing work.

#### Vapour Permeability

Formceal Type-R is vapour permeable, thus permitting trapped moisture vapour to escape.

### **Environmentally Friendly**

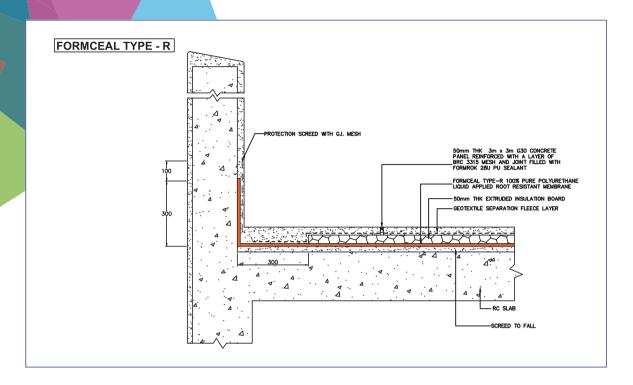
Green label Certified.

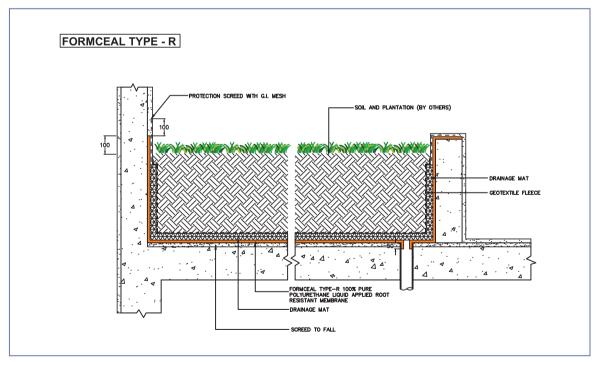
FORMCEAL TYPE-R is ideal for use in planter boxes/ landscape areas with ground covers, shrubs, turfings, without trees.

#### AREAS OF USAGE

- Planter Boxes
- Landscape Areas
- Roof Gardens
- R.C Roofs
- Wet Areas
- Tankings

# **DIAGRAM OVERVIEW**







# ASIA'S LEADING BUILDING PROTECTION SPECIALIST

# FORMCEAL TYPE-R

SINGLE COMPONENT ROOT-RESISTANT PURE POLYURETHANE WATERPROOFING MEMBRANE



Friendly Coating

#### **DATA SPECIFICATION SHEET**

#### **DESCRIPTION**

Formceal Type-R is a single component pure polyurethane elastomer liquid-applied waterproofing membrane with root resistant properties. It does not contain tar or bitumen and will not bleed or stain. It is a high performance curing 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.

#### **FEATURES**

- Self-priming single component
- Does not contain tar or bitumen
- Easy to apply and seamless
- Excellent physical properties
- · Root-Resistant

#### ARFA OF USF

- Wet Areas toilets, kitchen, balconies, shower etc.
- Concealed systems roofs, decks, podiums etc.
- Planters, landscape decks, roof gardens no trees
- Tanking basements, retaining walls, pond water features, non-potable water tanks

#### PRODUCT SPECIFICATION

PACKING: 25 kg/pail SOLID CONTENT: >90%

**DRY FILM THICKNESS:** Approximately 1mm

RESISTANCE TO WATER PENETRATION (DIN 1048 PT5): 7 bars

SHORE A HARDNESS (ASTM D2240): 85

WATER VAPOUR TRANSMISSION (ASTM E96): 6.25g/m<sup>2</sup>/24 hrs

CRACK BRIDGING (ASTM C836): No cracks @3.2mm

TENSILE STRENGTH (SS374): 2.94 N/mm<sup>2</sup>

**ELONGATION (SS374): 1050%** 

ROOT RESISTANCE (DIN 4062/ PD CEN/TS 14416:2014): Yes ADHESION TO SUBSTRATE (ASTM D4541): 2.51 N/mm<sup>2</sup> MODULUS @ 350% ELONGATION (ASTM D412): 2.507 MPa RECOVERY @ 350% ELONGATION (ASTM D412): 95.4%

#### SUBSTRATE PREPARATION

Surfaces must be sound, smooth and free from dust, laitance, loose matter, oil or other contaminants. Concrete should be cured for 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 0.6kg/m²x 2 coats
  - o This can applied in single coat at 1.2kg/m<sup>2</sup>
- If application is in 2 coats, allow first coat to dry fully before application of second coat
- Allow membrane to cure for 48 hours before ponding test

#### **PONDING TEST**

Ponding test can be carried out 48hours after application of final topcoat.

#### 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**

Spillage and tools should be cleaned with kerosene or white spirit.

Sample Here

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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.



Place Product

# **MAJOR PROJECTS**





Grace Assembly of God Church - Singapore





Ripple Bay - Singapore





Alumni House - Singapore



The Tembusu - Singapore

# **APPLICATION & INSTALLATION**











