

POLYURETHANE
COATING



SILCOTE-H70V[®]

1k polyurethane membrane

JV POLYMERS
innovative coating

HIGHLIGHTS

One component ready to apply direct from the can

No seams or laps

Highly flexible-over 500% elongation

Rapid installation-significantly reduces time spent on preparatory works and detailing

Available in self-levelling grade or rollable grade for easy application

Available in standard and high-build systems

Waterproofing membrane to prevent water penetration

Does not require hot-melt equipment

Excellent adhesion-can be applied to a wide range of substrates

YIELD

SILCOTE-H70V[®] is a 2-coat system to achieve a total DFT of 3.0mm.

APPEARANCE

Green, Grey coloured one pack polyurethane

PACK SIZE

15Liter(22kg) / can
19Liter(28kg) / can
*packed in round can

SHELF LIFE

In original sealed container, with proper storage conditions(below 25°C)
- 10 Months for high viscosity

DESCRIPTION

SILCOTE-H70V is a single component waterproofing and protective coating with excellent adhesion and water resistance.

It forms a polyurethane flexible, elastomeric seamless and non-permeable membrane, having more durable waterproofing and long lasting protection to surfaces like concrete, wood etc. It can absorb the possible shocks caused by the contraction and expansion of substrate surface.

It is supplied in a single grade to meet all site application methods and requirement. It has diverse viscosity range for roller, squeegee etc.

RECOMMENDED USES

It is recommended for durable and long lasting waterproofing and protective coating applications such as foundations, basements, tunnels, ground floors, suspended floors, car decks, roof terraces, balconies, patios, bridges, precincts, inspection pits, water retaining structures, sewage works, and inverted roofs. It can be used for interior/exterior surfaces. At normal condition, need not require a special primer for the application.

not recommended for;

Use with thin bed tile adhesives, without prior consultation with JV polymers.

Applications where the applied membrane will be subjected to UV Exposure.

Applications should not commence if the temperature of the substrate is below 5°C.

PROTECTION NOTES

SILCOTE-H70V membrane must be cured for a minimum of 24 hours @25°C before placing protection.

Where damage to the membrane is possible by traffic etc.

It should be protected by a cementitious screed or protection board.

It is recommended that the installation be carried out by professional, licensed applicators holding a current proper certificate in waterproofing.

The minimum film build requirements are identical for horizontal applications and must be applied without slump or deformation when cured.

JV polymers Technical Division must approve any modification to this technical data sheet in writing.

APPLICATIONS

- Concrete
- Plywood(exterior)
- Exterior below grade
 - masonry, concrete, and incidental metal
- Above grade
 - between two-course concrete
 - within cavity walls
- Parking garages and concrete tanks
- Plaza decks and malls

- Fountains and pools
- Balconies and planters
- Below-grade slabs
- Walls and culverts
- Sea walls, dams and reservoirs

Coverage may vary with the application technique used. Actual coverage rate and mil thickness depend on finish and porosity of the substrates.

TEST DATA

Analysis Items	Unit	ASTM	SILCOTE-H70V
Finish and color(customized)	-		GREEN/GREY
Stability	at 25°C		10 months
Tack Free Time	at 25°C, 60% RH		>3hours
Recoating	at 25°C		Interval 1 day
Viscosity	cps/25°C	D2196:15	6,000±2,000
solids content	-	D2369:10	92±2
Specific Gravity	-	D1475:13	1.4±0.1
Flash point(closed cup)	>°C	D3278:96	74
Hardness(shore A)	-	D2240	70±5
Tensile strength	kgf/cm ²	D412	>25
Tear	kg/cm	D412	>10
Elongation	%	D412	>500%
1mm film thickness			1.4kg/m ²

Test results are averages obtained under laboratory conditions.
Reasonable variations can be expected.

USAGE GUIDELINES

PREPARATION

Before application, the surface should be sound, clean and free from oil, grease, loose particles, dust, etc. Application can be done by the recommended application methods.

The surface moisture must be below 15%.

New concrete, mortar beds, screeds and render must have cured for at least 14 days.

All shrinkage and non moving structural cracks under 1.5mm shall be filled with not less than 1.5mm to both sides of the crack. All high spots should be removed.

Commencement of membrane system installation shall be taken as acceptance of the substrate suitability and preparation by the applicator.

GET PROPER PERFORMANCE

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Temperatures influence viscosity and handling characteristics of SILCOTE-H70V; heat increases and cold decreases the flow. Keep SILCOTE-H70V cool in hot weather and warm in cold weather.

Avoid application when inclement weather is present or imminent.

Do not directly heat containers with flame, stove, hot plate or oven.

Carefully work material over irregular concrete to avoid pinholes and holidays.

PRIMING

Priming is not normally required on good quality concrete substrate. However, absorbent surfaces such as porous concrete will require filling to prevent absorption of SILCOTE-H70V.

Before applying the final membrane, all joints, cracks and openings around protrusions must be sealed by caulking or preliminary coating of SILCOTE-H70V applied with a trowel or brush.

All joints over 3mm must be sealed with a JV urethane sealant. Any working joint less than 3mm should be routed to a minimum of 6mm and filled with a sealant.

Prevent the waterproofing membrane from adhering to the joint sealant, which could cause sealant or membrane failure, by applying wax layer over the cured sealant and then presrtipping.

PRECAUTIONS 1

A test application is always recommended before proceeding with entire system.

Finish coat must be applied in a pinhole-free, continuous membrane for waterproofing integrity.

PRECAUTIONS 2

- Can be applied using a brush, roller or trowel.
- Should not be applied in excess of 1.5mm thick per coat.
- Appreciable properties develop within 24-48 hours at 24°C and 50% relative humidity. Protect SILCOTE-H70V from traffic during curing.
- Stir well before use. Approx 1.4kg/m² in 1.0mm dry film thickness on treated surface (depends on jobsites) Recommended film thickness(total layer) is 3mm.

STORAGE

Store H70V in proper storage conditions as per the local regulations.

Keep the paint container in sealed condition under shed, away from direct sunlight and extreme temperatures.

Do not stock paint material near to any ignition sources.

Do not put back the half or unused material back in original container, containing the supplied paint, to avoid contamination.

Do not allow product to freeze and protect from direct sunlight.

SAFETY PRECAUTIONS

As a general rule, avoid skin and eye contact by wearing overalls, gloves, goggles, and mask etc. spillage on skin should immediately be removed by thorough washing with water and soap or suitable cleaner. Eye should be flushed with fresh water. Avoid inhalation of vapors and paint mist by wearing suitable mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well ventilated area. This product contains flammable materials and should be kept away from the sparks and open flames, smoking in the area should not be permitted. Local safety regulations should be followed.

Customer Service

JV POLYMERS CO LTD.

Unit606, 6/F, 1193 Jungang-ro, Ilsandong-gu, Goyang-si, Gyeonggi-do, South Korea.

TEL/FAX)82-70-8688-3957 EMAIL)info@jvpolymers.com

Technical Service

JV POLYMERS ASIA-PACIFIC LTD.

DD119, Kiu Hing Road, Yuen Long, N.T., Hong Kong.

TEL/FAX)82-70-8688-3957 EMAIL)info@jvpolymers.com