

TECHNICAL DATA SHEET

EPO MVB®

MOISTURE VAPOR BARRIER EPOXY COATING
(VERSION # 1 – JUNE 18, 2025)



FUSION

100% SOLIDS, TWO-COMPONENT MOISTURE VAPOR BARRIER EPOXY COATING.
EFFECTIVELY MANAGES MOISTURE VAPOR EMISSION RATES (MVER) UP TO 25 LB. / 1,000
SQ. FT. / 24 HR., DELIVERING OUTSTANDING MECHANICAL STRENGTH

APPLICATIONS

- RESIDENTIAL, COMMERCIAL AND INSTITUTIONAL
- APPLICATIONS ON PROPERLY PREPARED FLOOR AND/OR STRUCTURAL SLABS

CHARACTERISTICS / ADVANTAGES

- EASY TO APPLY
- LOW ODOR FORMULA, IDEAL FOR SERVICE AREA APPLICATIONS
- DURABLE AND GOOD RESISTANCE TO GENERAL MECHANICAL AND CHEMICAL ABRASION

PRODUCT INFORMATION

PACKAGING

11.35 L UNIT (3 GAL US)

COMPONENT A: 7,56 L RESIN
COMPONENT B: 3,78 L HARDENER

MIXING RATIO

CLEAR	A: B = 2:1 (100:50)
TINTED	A: B = 2:1 (100:39:45)

CONSUMPTION

2,45 M²/L (100 FT²/GAL US) @ 16 MILS

RECOATING AND CURING TIME

TEMPERATURE	RECOATING	FOOT TRAFFIC	LIGHT TRAFFIC	FULLY CURED
At 10°C (50°)	N/A	N/A	N/A	N/A
At 20 °C (68 °F)	12 – 24 H	1 DAY	2 DAYS	5 DAYS
At 30 °C (86 °F)	8 – 24 H	1 DAY	36 HOURS	5 DAYS

APPLICATION TEMPERATURE

MIN	10 °C (50 °F)
MAX	30 °C (86°F)

COLOR

CLEAR, * *CAN BE COLORED ON SITE* *

SHELF-LIFE & STORAGE

1 YEAR IN ORIGINAL, UNOPENED PACKAGING. STORE IN DRY PLACE BETWEEN 12 AND 28°C (41 AND 89°F)
CONDITION THE PRODUCT BETWEEN 18 AND 30°C (65 AND 86°F) BEFORE USE.

TECHNICAL DATA (Properties at 23°C (73°F) and 50% R.H.)

PROPERTY	NORM	VALUE
VISCOSITY @ 25°C		1500-1800 (CLEAR) 2300 - 2500 (TINTED)
SHORE D HARDNESS	ASTM D2240	85-90
ABRASIVE RESISTANCE, (CS17 / 1000 CYCLES / 1000 g)	ASTM D4060	0.10 G
COMPRESSIVE STRENGTH	ASTM D695	9000-10000 PSI
TENSILE STRENGTH	ASTM D638	6500 PSI
ELONGATION (%)	ASTM D638	6 – 7 %
BOND STRENGTH	ASTM D4541	> 300 CONCRETE FAILURE
COV (g/L)		>40

PRODUCT PROPERTIES GENERALLY REFLECT LABORATORY AVERAGES. SOME FIELD VARIATIONS MAY OCCUR DUE TO LOCAL ENVIRONMENTAL CONDITIONS AND FACTORS SUCH AS SUBSTRAT PREPARATION, APPLICATION, CURING, AND TESTING METHODS. COVERAGE RATE AND PRODUCT CONSUMPTION WILL DEPEND ON POROSITY AND PROFILE OF THE SUBSTRATE. CONSIDERATION SHOULD BE GIVEN TO VARIATIONS IN FILM THICKNESS OR THE NUMBER OF COATS REQUIRED TO ACHIEVE THE DESIRED OPACITY WHEN USING LIGHT COLOR.

INSTRUCTIONS

SURFACE PREPARATION

THE CONCRETE SURFACE MUST BE CLEAN AND SOUND. REMOVE ALL TRACES OF LAITANCE, GREASE, OIL, DIRT, CURING AND IMPREGNATING AGENTS, WAX, COATINGS, FOREIGN MATTER AND ANY OTHER DISINTEGRATED SUBSTANCE BY A SUITABLE MECHANICAL METHOD TO OBTAIN AN ICRI / CSP 3 - 4 PROFILE ON FLOORS. WHEN APPLYING THE PRODUCT, THE COMPRESSIVE STRENGTH OF THE CONCRETE SUBSTRATE MUST BE AT LEAST 25 MPA (3625 PSI) AT 28 DAYS AND THE TENSILE STRENGTH AT LEAST 1.5 MPA (218 PSI). SWEEP AND THOROUGHLY VACUUM THE PREPARED SURFACE.

MIXING

PREMIX EACH COMPONENT SEPARATELY. POUR COMPONENT B INTO COMPONENT A, STRICTLY OBSERVING THE MIXING RATIO. USING A DRILL, MIX THE COMPONENTS AT LOW SPEED (300 TO 450 RPM) TO MINIMIZE AIR ENTRAPMENT FOR AT LEAST THREE (3) MINUTES. USE AN EXOMIXER® TYPE MIXING PADDLE (RECOMMENDED MODEL) APPROPRIATE FOR THE VOLUME TO BE MIXED AND THE CONTAINER USED. DURING MIXING, SCRAPE THE SIDES AND BOTTOM OF THE BUCKET AT LEAST ONCE WITH A STRAIGHT-EDGED TROWEL TO OBTAIN A HOMOGENEOUS MIXTURE. WHEN THOROUGHLY MIXED, THE PRODUCT SHOULD HAVE A UNIFORM COLOR AND A HOMOGENEOUS CONSISTENCY. ONLY PREPARE THE QUANTITY OF PRODUCT THAT CAN BE APPLIED DURING THE POT LIFE.

APPLICATION

PRIMER: APPLY AN EVEN COAT OF PRIMER USING A BRUSH, ROLLER OR SQUEEGEE WITHOUT FORMING PUDDLES.

IF THE TIME BETWEEN APPLICATIONS EXCEEDS 48 HOURS AT 22°C (71°F), SAND THE SURFACE AND WIPE WITH A WHITE CLEAN, SOLVENT-DAMPENED CLOTH.

CLEANING

CLEAN ALL TOOLS AND EQUIPMENT WITH XYLENE. CURED PRODUCTS CAN ONLY BE REMOVED MECHANICALLY. WASH HANDS AND SKIN THOROUGHLY WITH WARM, SOAPY WATER OR USE SIKAR® HAND CLEANER WIPES.

RESTRICTIONS

- MINIMUM / MAXIMUM SUBSTRATE TEMPERATURE 10°C / 30°C (50°F / 86°F)
- MAXIMUM RELATIVE HUMIDITY DURING APPLICATION AND CURING: 85%
- THE SUBSTRATE TEMPERATURE SHOULD BE 3°C (5.5°F) ABOVE THE MEASURED DEW POINT
- DO NOT APPLY TO POROUS SURFACES WHERE MOISTURE TRANSMISSION MAY OCCUR DURING APPLICATION
- SUBSTRATE MOISTURE CONTENT: < 4% AT THE TIME OF APPLICATION
- NOT SUITABLE FOR APPLICATIONS ON OUTDOOR SUBSTRATES AT GROUND LEVEL (SLABS ON GRADE) WITHOUT VAPOR BARRIER
- PROTECT FROM HUMIDITY, CONDENSATION AND CONTACT WITH WATER DURING THE FIRST 24 HOURS OF CURING
- THE SURFACE MAY DISCOLOR IN AREAS CONSTANTLY EXPOSED TO UV RAYS
- DO NOT MANUALLY MIX THE PRODUCT, MECHANICAL MIXING ONLY

HEALTH AND SAFETY

FOR FURTHER INFORMATION AND ADVICE ON THE HANDLING, STORAGE AND DISPOSAL OF CHEMICALS, USERS SHOULD CONSULT THE MOST RECENT SAFETY DATA SHEET FOR THE PRODUCT CONTAINING PHYSICAL, ECOLOGICAL, TOXICOLOGICAL AND OTHER SAFETY-RELATED DATA. KEEP OUT OF REACH OF CHILDREN

INFORMATION AND RECOMMENDATIONS CONCERNING THE APPLICATION AND ULTIMATE USE OF FUSION PRODUCTS ARE COMMUNICATED IN GOOD FAITH, BASED ON PROSOL'S CURRENT KNOWLEDGE AND EXPERIENCE, AND CONCERN PRODUCTS STORED, HANDLED AND APPLIED UNDER NORMAL CONDITIONS, WITHIN THE PRESCRIBED PERIOD OF USE. IN PRACTICE, MATERIALS, SUBSTRATES AND ACTUAL SITE CONDITIONS MAY VARY SUBSTANTIALLY. ACCORDINGLY, PROSOL MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ASSUMES NO LIABILITY FOR THE INFORMATION, RECOMMENDATIONS AND ADVICE PROVIDED. THE PROPRIETARY RIGHTS OF THIRD PARTIES MUST BE RESPECTED. PROSOL ACCEPTS ALL ORDERS SUBJECT TO ITS CURRENT PAYMENT AND DELIVERY TERMS. USERS SHOULD ALWAYS CONSULT THE MOST RECENT VERSION OF THE PRODUCT DATA SHEET, WHICH IS AVAILABLE UPON REQUEST OR BY VISITING OUR WEBSITE AT WWW.PROSOL.CA



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