

CREETY ES

PRODUCT DESCRIPTION

Three-component urethane-based screed coating designed to provide high performance in various environments with robustness and high durability. Applied in a single layer, with anti-slip finish, and antibacterial properties. Provides excellent resistance to abrasion, heavy mechanical impacts, chemicals and thermal variations.

RECOMMENDED USE

Developed to meet the needs of different sectors, the coating is ideal for: Industries: food, beverage, pharmaceutical, chemical, textile, among others. High traffic areas: withstands heavy vehicles such as forklifts, cargo trucks, and aircraft.

Application on concrete aged 10 to 12 days, provided the moisture tolerance is met.

CERTIFICATIONS AND APPROVALS

Complies with ASTM G-21 standard: antimicrobial function.

When supplied to comply with the ROHS Directive (Restriction of Certain Hazardous Substances), this product includes the letter R in its nomenclature description.

PACKAGING

Component A	Package containing 2.36kg.
Component B	Package containing 2.24kg.
Component C	Packaging containing 20 kg

CHARACTERISTICS

Color	Blue. Beige. Gray. Green. Red.
Gloss	Matte
Volume Solids	95 ± 1% (ISO 3233)
Shelf Life	6 months
Dry Film Thickness	6,000 µm - 12,000 µm
Theoretical Coverage	Coating 6 mm = 13.23; Coating 7 mm = 15.43; Coating 8 mm = 17.64; Coating 9 mm = 19.84; Coating 10 mm = 22.05; Coating 11 mm = 24.25; Coating 12 mm = 26.46.

DRYING

Drying	25 °C
Light traffic	8 - 12 hours
Heavy traffic	18 - 24 hours
Chemical action	72 hours

PHYSICOCHEMICAL CHARACTERISTICS

Adhesion (ASTM D 4541)	100 % FAILURE CONCRETE
Thermal Expansion Coefficient (ASTM C 531)	3.9 X 10-5/ °C

Compressive Strength (ASTM C 109/109M)	Greater than or equal to 40 MPa (28 days)
Flexural Strength (ASTM C 580)	Greater than or equal to 15 MPa (28 days)
Tensile Strength (ASTM C 307)	2,50 MPa
Taber Abrasion Resistance CS-17 (ASTM D 4060)	~ 0.07 g
Modulus of Elasticity (ASTM C 469)	Greater than or equal to 1.16 GPa
Permeability (CP.BM2/67/2)	ABSORPTION 0
Operating Temperature	-40 °C TO 140 °C

PRODUCT	CONCENTRATION (%)	TEMPERATURE	GRADUATION	PRODUCT	CONCENTRATION (%)	TEMPERATURE	GRADUATION
ACETALDEHYDE	100%	71.6 °F	R	CHLOROFORM	100%	71.6 °F	L
ETHYL ACETATE	100%	71.6 °F	L	AVIATION FUEL	-	71.6 °F	R
ACETONE	100%	71.6 °F	R	STYRENE	100%	71.6 °F	R
ACETIC ACID	10%	68/185 °F	R	ETHANOL	100%	71.6 °F	R
BENZOIC ACID	100%	71.6 °F	R	ETHYLENE GLYCOL	100%	71.6 °F	R
CITRIC ACID	60%	71.6 °F	R	BRAKE FLUID	-	71.6 °F	R
HYDROCHLORIC ACID	20/35 %	68/140 °F	R	GASOLINE	-	71.6 °F	R
HYDROFLUORIC ACID	4%	71.6 °F	R	FATS	-	167 °F	R
HYDROFLUORIC ACID	20%	71.6 °F	L	AMMONIUM HYDROXIDE	28%	71.6 °F	R
FORMIC ACID	40/70 %	71.6 °F	R	POTASSIUM HYDROXIDE	50%	71.6 °F	R
FORMIC ACID	90%	71.6 °F	L	SODIUM HYDROXIDE	50%	140 °F	R
PHOSPHORIC ACID	50%	71.6 °F	R	SODIUM HYDROXIDE	50%	194 °F	L
LACTIC ACID	85%	140 °F	R	MILK	-	71.6 °F	R
NITRIC ACID	65%	71.6 °F	L	METHANOL	100%	71.6 °F	R
SULFURIC ACID	98%	71.6 °F	L	METHYL ETHYL KETONE	100%	71.6 °F	L
HYDROGEN PEROXIDE	30%	71.6 °F	R	ENGINE OIL	-	71.6 °F	R
BLEACH	SATURATED	71.6 °F	R	PARAFFIN	-	71.6 °F	R
TURPENTINE	-	71.6 °F	R	PETROLEUM	-	71.6 °F	R
ISOPROPYL ALCOHOL	100%	71.6 °F	R	PROPYLENE GLYCOL	100%	71.6 °F	R
BENZENE	100%	71.6 °F	L	KEROSENE	-	71.6 °F	R
BUTANOL	100%	71.6 °F	R	TOLUENE	100%	71.6 °F	R
BEER	-	71.6 °F	R	XYLENE	100%	71.6 °F	R
CALCIUM CHLORIDE	50%	71.6 °F	R				
				Graduation: R - Resistant L - Limited resistance			
For more details regarding chemical resistance, consult WEG's technical department.							

SURFACE PREPARATION

Standard Surface Preparation

The performance of this product is related to the degree of surface preparation. In case of doubts, for more information, consult WEG's Technical Department.

Concrete Surfaces

Mold release agents, cement laitance, grease, oil, wax, or any other contaminants that have penetrated or deposited on the surface must be removed, along with all accumulated dust.

Concrete must have a minimum age of 7 days, FCK # 30 MPa, and minimum tensile strength of 1.5 MPa. The substrate must be properly cured and intact. Before application, verify upward water

vapor pressure according to ASTM D 4263.

The surface must be mechanically treated to achieve CSP 6 to 9 profile per International Concrete Institute recommendations. Anchor cuts should cover the entire area, with a maximum distance of approximately 8 meters between cuts. Cuts should have double the coating thickness in width and depth (Example: CREETY ES 6 mm = Cuts 12 mm wide and 12 mm deep). Do not wash the floor after preparation and cuts; if washed, ensure moisture is addressed and start application after substrate is completely dry.

APPLICATION PREPARATION

Mixing	Thoroughly homogenize component A before starting the mixing process. With component A in the mixing container, add component B and begin mixing using a low-speed mechanical mixer (300 to 450 rpm) for 40 seconds. Add component C and mix for 1 minute and 30 seconds. Attention: Ensure that the entire mixture is homogeneous. If necessary, use a spatula to scrape the sides and bottom of the container to incorporate any material that has not been mixed. Note: For temperatures between 10.0°C and 14.9°C, the mixing time shall be 3 minutes after the addition of component C.
Thinner	Not applicable.
Dilution	Ready to use.
Pot Life	10 min The shelf life of the mixture is reduced as the ambient temperature increases. The pot-life test of the mixture is carried out according to ABNT NBR 15742; however, different volumes of paint prepared at once, combined with varying ambient and paint temperatures, will affect the mixture's shelf life, potentially resulting in outcomes different from those stated in this technical bulletin.

APPLICATION METHODS

Squeegee, Spatula and Trowel	After mixing the three components (A, B, and C), pour the product onto the substrate manually or using a screed box equipment, according to the desired thickness. For manual application of the coating, compact the product using a smooth metal trowel.
Cleaning of the equipments:	Not applicable.
Notes	The data presented serves as a guide and similar equipment may be used. Before application, ensure that the equipment and respective components are clean and in optimal condition.

SAFETY PRECAUTIONS

Product developed for industrial use intended for handling by qualified professionals. Carefully read all information contained in the SDS of this product, available at: www.weg.net.
Store in a covered and well-ventilated place. Keep the container tightly closed and away from sources of heat or ignition.
Use only in well-ventilated areas, avoiding the accumulation of flammable vapors. Keep the product away from heat and sources of ignition.
Do not inhale mists/vapors/aerosols generated during handling and/or application. Use protective gloves/protective clothing/eye protection/face protection.
Empty containers and materials with paint residues must be disposed of according to current legislation. Take care of the environment.

NOTE

The information contained in this technical bulletin is based on the experience and knowledge acquired in the field by WEG's technical team.
In the event of using the product without prior consultation with WEG regarding its suitability for the purpose for which the customer intends to use it, the customer acknowledges that the use will be at their own exclusive responsibility, and WEG is not liable for the behavior, safety, suitability, or durability of the product.
Some information mentioned in this bulletin is only an estimate and may vary due to factors beyond



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