TECHNICAL DATA SHEET

CREETY AN

PRODUCT DESCRIPTION

Three-component self-leveling urethane flooring system designed to provide high performance in a wide range of environments. With a smooth, easy-to-clean finish, it is solvent-free, features low VOC content, and includes antimicrobial action exclusively intended to preserve the aesthetic properties, protective performance, and durability of the applied film. The system offers excellent resistance to abrasion, impact, and chemical agents, in addition to superior properties compared to conventional epoxy applications.

Its formulation ensures tolerance to surface moisture (<10.0%), resistance to cleaning with hot water in CIP processes, and high durability even in environments subjected to freeze-thaw cycles. It features a coefficient of thermal expansion similar to concrete, providing greater dimensional stability. Suitable for indoor and outdoor areas, the coating ensures excellent mechanical and chemical performance, combining durability, safety, and ease of maintenance.

RECOMMENDED USE

Developed to meet the needs of various sectors, the coating is ideal for:

Industries: food, beverage, pharmaceutical, chemical, textile, and others.High-traffic areas: withstands heavy vehicles such as forklifts, cargo trucks, and aircraft.Environments requiring high hygiene and hot water cleaning: industrial kitchens, restaurants, cafeterias, cold storage and cooling chambers.

Application on concrete aged 10 to 12 days, provided 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 3.6 kg.
Component B	Package containing 3.6kg.
Component C	Package containing 15.80 kg.

CHARACTERISTICS

Color	Beige. Gray. Dark gray.
Gloss	Matte
VOC content	1.77 g/l
Volume Solids	98 ± 2% (ISO 3233)
Shelf Life	6 months
Dry Film Thickness	3 - 6 mm
Dry Heat Resistance	Maximum temperature 120 °C. The product maintains its chemical properties up to a temperature of 120 °C, but from 60°C, color and gloss variations in the paint may occur.
Theoretical Coverage	3 mm Coating = 5.40 kg/m² 4 mm Coating = 7.20 kg/m² 5 mm Coating = 9.00 kg/m² 6 mm Coating = 10.80 kg/m² Scratch Primer = 1.80 kg/m²

DRYING

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

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PHYSICOCHEMICAL CHARACTERISTICS

Adhesion (ASTM D 4541)	100 % FAILURE CONCRETE
Thermal Expansion Coefficient (ASTM C 531)	3.6 X 10-5/ °C
Compressive Strength (ASTM C 109/109M)	Greater than or equal to 48 MPa (28 days)
Flexural Strength (ASTM C 580)	Greater than or equal to 21 MPa (28 days)
Tensile Strength (ASTM C 307)	3,00 MPa
Taber Abrasion Resistance CS-17 (ASTM D 4060)	~ 0.07 g
Modulus of Elasticity (ASTM C 469)	Greater than or equal to 1.03 GPa
Permeability (CP.BM2/67/2)	ABSORPTION 0

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	R20/35	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	R
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	Saturada	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

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.

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.

The surface must be mechanically treated to achieve CSP 4 to 6 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 AN 3 mm = Cuts 6 mm wide and 6 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	Homogenize component A thoroughly before starting the mixtures. With component A in the mixing container, add component B and start mixing using a low-speed mechanical mixer (300 to 450 rpm) for 25 seconds. Then, add component C and mix for 1 minute. Attention: ensure that the entire mixture is homogeneous. If necessary, use a spatula to scrape the sides and bottom of the container to remove any remaining material that has not been incorporated into the mixture. Note: for temperatures between 10.0 °C and 14.9 °C, the mixing time will be 1 minute and 30 seconds after adding component C.
Mixing Ratio	By weight: 100 A x 100 B x 569 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	APPLICATION AS PRIMER: For substrate priming, follow as follows: After mixing parts A, B, and C, apply CREETY AN scraped (called "scraped primer") on the substrate at 1mm using a smooth metal trowel, in order to seal the entire substrate. Allow to dry for a minimum of 12 hours and a maximum of 24 hours (25°C) before applying the topcoat. TOPCOAT APPLICATION: After mixing the three parts (A, B, and C), pour the product completely over the substrate. Using a trowel or notched squeegee, spread the product over the entire surface to reach the desired thickness of 3-6mm, then use a bubble-popping roller in a cross pattern for better leveling and removal of excess incorporated air.
Cleaning of the equipments:	Not applicable.
Notes	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 the manufacturer's control. Therefore, WEG does not guarantee and assumes no responsibility for performance, efficiency, or any material or personal damages resulting from the incorrect use of the products in question or from the information contained in this Technical Bulletin.

The information contained in this technical bulletin is subject to periodic modifications, without prior notice, due to our policy of continuous improvement and evolution of our products and services, providing quality solutions to meet the needs of our customers.

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