KANSAI ALTAN

Neotect
Protective Coatings

TECHNICAL DATA SHEET

BS118
CORROTAN HS DTM TOPCOAT

DESCRIPTION

Product Description	Two component, high volume solid, semi gloss, zinc phosphate containing anticorrosive polyurethane topcoat based on acrylic polyols and aliphatic polyisocyanate resins. High mechanical durability combined with chemical resistance, and excellent outdoor durability are the main characteristics of BS118 series.
Intended Use	It can be applied as a single coat on steel and galvanized surfaces.
Characteristic Properties	● Excellent UV resistance and outdoor durability ● High gloss and color retention

PRODUCT PROPERTIES

Color	Range of shades upon request
Gloss Level	Semi Gloss (50-70 gloss)
Mixing Ratio	Material is supplied in two containers as a unit. Base (Comp A) = BS118 : 6.75 by volume Hardener (Comp B) = BB118Z001 : 1 by volume Thinner = TB1250 / TB5060 : 0-10 % by volume (depends on application condition)
Solids (by volume)	65-69 % (ISO 3233-1)
Suggested Thickness	120±10 microns dry film
Theoretical Coverage	Approximately 4.6 m^2/L (120 microns dry film) The practical coverage depends on the factors, such as shape of the construction, roughness of the substrate, method and conditions of application. A guideline for spraying is: Large areas: Approx. 70% of the theoretical coverage. Small areas: Approx. 50% of the theoretical coverage.
Application Method	Airless spray, conventional spray, roller, brush (for stripe coating)
Pot Life, 20°C	5 hours after the mixture is prepared.

STORAGE AND SAFETY INFORMATION

Storage	Store in a well ventilated and dry conditions at temperatures between 5 - 40°C. The packaging should not be exposed to direct sunlight. The shelf lives of the products (base and hardener) are at least 12 months in unbroken original package, under mentioned storage conditions.
Warnings	See label for precautions. The user of this product is required to comply with the national statutory regulations for health, safety during transportation and at work and waste disposal. See the MSDS for detailed information.

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APPLICATION INFORMATION

Surface Preparation

Carbon steel surfaces;

● Visible deposits of oil, grease, or other contaminants shall be removed as required by SSPC-SP 1.

● Abrasive blast cleaning to the requirements of ISO 8501-1: 2007 $Sa2^{1/2}$ or SSPC SP-10 / Nace No:2 is recommended as minimum.

● Surface profile ranging between 30 µm and 75 µm according to ASTM D 4417 Method B or C is recommended.

Carbon steel surfaces where sandblasting cannot be performed;

● Chemical conversion coating is recommended.

Metal surfaces other than carbon steel (Hot-Dip galvanized, Aluminium and Stainless steel);

● It is recommended to remove loose galvanized burrs, zinc oxide stains and zinc slag on the surface before sandblasting by mechanical methods.

● Light brush–off blasting (sweep blasting) using non-metallic abrasive leaving a clean, rough, and even pattern is recommended according to ASTM D 6386.

● Galvanized surfaces where sweep blasting cannot be performed should be surface treated as required by ASTM D 6386.

● Force drying hot dip galvanized surfaces for at least 2 hours at 160°C for efficient outgassing is recommended.

Application Conditions

Ambient temperature shall be above 5°C and relative humidity shall be below 85%. Surface temperature shall be a minimum of 3°C above the dew point. Adequate ventilation shall be provided in confined spaces to ensure proper drying. Ideal application temperature is 5°C - 40°C.

Product Preparation

Material is supplied in two containers as a unit.
Base (Comp. A) = BS118
Hardener (Comp. B) = BB118Z001

Stir Base part with power agitator well before mixing. Then mix in a right proportion Base (Comp. A) with Hardener (Comp B), stir thoroughly with power agitator.

6.75 parts of Comp. A (BS118) to 1 part Comp. B (BB118Z001) (by volume

Application Method, 20°C

Equipment	Airless Spray	Conventional Spray	Roller/Brush
Thinner	TB1250 & TB5060	TB1250 & TB5060	5690KCZ
Dilution	0-4 % by volume	0-10 % by volume	5-10% by volume
Nozzle Pressure	More than 15 MPa	-	-
Nozzle Size	0.013-0.019”	-	-

Drying Time
(for 120 microns DFT)

Surface Temperature	5°C	10°C	20°C	40°C
Touch Dry	5 hours	2.5 hours	1.5 hours	1 hour
Hard Dry	24 hours	10 hours	6 hours	3 hours
Dried for service	21 days	14 days	7 days	3 days

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Packaging

	Volume (litres)	Size of containers (litres)
Base (Comp A) =	17.4	25
Hardener (Comp B) =	2.6	2

The effectiveness of our systems is based on many years' practical experience and laboratory research. We guarantee that the quality of the work performed in accordance with our systems meets the Kansai Altan standards, provided that our instructions are followed carefully and the work is performed in accordance with the requirements as to good craftsmanship. We decline any responsibility, if the final result is affected by factors beyond our control. The customer has to determine the suitability of the delivered products for the intended application by using the means which normally are at his/her disposal.

Issue Date: 05/09/2022 (It is the user's responsibility to check that this sheet is up to date)
Reference No: TDS / BS118/ 03

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