

Product Safety Data Sheet:
TERRIX® IP-ST-P

Date of issue: 11/06/2018

Issue no. 2

MATERIAL SAFETY DATA SHEET

Made in accordance with EU Regulation No. 2015/830

Date of issue/updated: 11/06/2018 Issue no.2

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND SUPPLIER

PRODUCT NAME:	premium dispersion-silicate paint coat
OTHER NAMES:	TERRIX® IP-ST-P
RECOMMENDED USE:	to be used as an internal top coat
SUPPLIER:	PCC MORAVA - CHEM s.r.o
ADDRESS:	Leoše Janáčka 798/20 737 01 Český Těšín Czech Republic
TELEPHONE:	+420 558 769 112
EMAIL:	terrix@pcc.eu
WEBSITE:	www.pcc.eu
EMERGENCY CONTACT:	112

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SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIX	Classification according to Regulation 1272/2008 / EC (CLP)
Hazard Type:	The mixture does not meet the criteria for classification.
Health hazards:	not applicable
Environmental hazards:	not applicable
Hazardous properties:	not applicable
Label Elements:	
Hazard pictograms:	not applicable
Risk phrases:	not applicable
Safety phrases:	P102 Keep locked up and out of the reach of children. P101 If necessary, seek medical advice, show the container or label
Other hazards:	According to Annex XIII, the substance does not meet PBT or vPvB criteria. A slightly alkaline liquid mixture - use protective gloves, eye and face protection. In accordance with Directive 2004/42 / CE, the product has been classified as A / a - the permissible maximum value of VOC is 30g / l. The product contains less than 30g / L VOC.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCES:	not applicable
MIXTURES:	A mixture of an aqueous dispersion of acrylic copolymer, potassium water glass with titanium dioxide (coloured pigments), carbonate fillers and auxiliary agents of organic origin.

SUBSTANCES POSING HAZARD TO HUMAN OR ENVIRONMENT:

Hazardous substances contained in the product	%	Identifiers	Classification hazard phrases and symbols - acc. Regulation EC no. 1272/2008 (CLP)/according to the Directive 67/548/EEC
Quartz (SiO ₂)	<5.0	CAS No: 14808-60-7 EC No: 238-878-4 Index: -	 STOT RE2, H373
Potassium hydroxide	<0.1	CAS No: 1310-58-3 EC No.: 215-181-3 Index No: 019-002-00-8 Registration number: 01-2119487136-33- xxx	 Skin Corr. 1A, H314
			 Acute Tox.4, H302
A mixture of 5-chloro-2-methyl-2H-isothiazol-3-one [WE 247- 500-7] and 2-methyl-2H-isothiazol-3-one [WE 220-239-6] (3: 1)	< 0.001	CAS number: 55965-84-9 EC No.: - Index number: 613-167- 00-5	 Acute Tox. 3, H301, Acute Tox 2, H310, H330
			 Skin Copr. 1B, H314
			 Aquatic Acute 1, H400; Aquatic Chronic 1, H410
			 Skin Sens. 1, H317
Titanium dioxide	>1.0	CAS number: 13463-67-7 EC No: 236-675-5 Index number: - Registration number: 01-2119489379-17- xxxx	Substance with NDS in the work environment
Calcium carbonate	>1.0	CAS number: 471-34-1 EC No: 207-439-9 Index number: - Registration number: 01- 2119486795-18-xxxx	Substance with NDS in the work environment

The full wording of H-phrases, hazard codes and classes are given in section 16.

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SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

Respiratory exposure:	Adverse effects not expected from this product; if symptoms occur, ensure fresh air and seek medical attention
Eye contamination:	flush eyes with water jet, in the case of irritation consult a doctor
Skin contamination:	wash with water using standard hygienic products (soap, paste, etc.)
Swallowing:	wash mouth with plenty of water and contact your doctor

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

	consumption may cause irritation of the digestive system;
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INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

	provide medical aid if necessary
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SECTION 5: PROCEEDING IN CASE OF FIRE

EXTINGUISHING MEDIA:

suitable extinguishing media:	foam extinguisher, water mist;
unsuitable extinguishing media:	water jet

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

hazards from the mixture	decomposition products may contain carbon dioxide, carbon monoxide, metal oxides
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ADVICE FOR FIRE-FIGHTERS:

	quickly isolate the scene by removing persons from the vicinity of a fire, fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with full face mask covering operating at positive pressure. Basic level of protection for chemical incidents provides clothing for fire-fighters (including helmets, protective boots and gloves)
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SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

for emergency personnel	do not take any action posing a risk to anyone unless you properly trained; evacuate people from the surrounding areas, do not touch or walk through spilt material
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for non-emergency personnel	proper protective clothing (section 8)
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ENVIRONMENTAL PRECAUTIONS:

	Protect against the entry of large amounts of the mixture into the soil, drains, surface and groundwater. In case of contamination inform local authorities in accordance with legal regulations.
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METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

	remove mechanically with absorbing material (sand, saw dust, earth). In case of large spills bound the spill, protect sewers, water courses and entries to basement, and wash the spilt material and dispose of at a treatment plant.
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	put in a properly marked container for later disposal
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REFERENCES TO OTHER SECTIONS:

	refer to Section 8 for the information on the personal protective equipment. Refer to Section 13 for further waste treatment methods
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SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

	maintain reasonable care and caution to inform employees about the dangers associated with the handling of the product. Keep away from strongly acidic and basic materials. Refer to section 8 for personal protective equipment
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CONDITIONS FOR SAFE STORAGE, INCLUDING ANY MUTUAL INCOMPATIBILITIES:

	In sealed, original packaging; protect against frost and sunlight. Shelf life - 12 months from the date of production.
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SPECIFIC END USE(S):

	no data available
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

NDS (mixture)		none		
NDS (substance)				
Substances	CAS No.	NDSmg/m ³	NDSch	NDSP
quartz	14808-60-7		-	-
total dust		4.0	-	-
respirable dust		1.0	-	-
titanium dioxide	13463-67-7	10	-	-
calcium carbonate	471-34-1		-	-
inhaled fraction		10	-	-
potassium hydroxide	1310-58-3	0.5	1	-
Titanium white				
DNELs for employees	long-term local effects, inhalation		10 mg/m ³	
DNEL value for the general public	long-term systemic effects, alimentary way		10 mg/m ³	
PNEC values				
PNEC for water (fresh water)			0.127 mg/l	
PNEC for water (sea water)			1 mg/l	
PNEC for water (occasional release)			0.61 mg/l	
PNEC STP			100 mg/l	
PNEC for sediment (fresh water)			1000 mg/l	
PNEC for sediment (sea water)			100 mg/l	
PNEC for soil			100 mg/l	

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EXPOSURE CONTROL:

water intake with an industrial shower and an eye wash

personal protection adjusted to the conditions in the work environment by a specialist for the BPC or an industrial doctor

do not eat, drink or smoke during work

Suitable Technical Control Measures:

ensure proper ventilation of the room while working with the mixture, and personal protection equipment.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

respiratory protection	not required if adequate ventilation is present
hand protection	use protective gloves
eye or face protection	use protective goggles
skin protection	use work clothes; the selection of additional protection measures such as apron, footwear, etc. depends on the size of the exposure and the type of operations carried out

Environmental exposure controls:

prevent from large amounts of mixture entering reservoirs, water courses, sewerage and effluents. In case of contamination inform local authorities in accordance with legal regulations.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	thick liquid
Odour:	perceptible, specific
Odour threshold	n/a
pH:	~11
Melting/solidification point:	no data available
Initial boiling temperature and boiling temperature range:	no data available
Flash point	n/a
Evaporation rate:	no data available
Flammability (solid, gas):	n/a
Upper/lower flammability or explosive limits:	no data available
Vapour pressure:	n/a
Vapour density:	n/a
Density at 20°C:	ca. 1.5 g/cm ³
Solubility:	mixable with water
Partition coefficient n-octanol/water:	n/a
Auto-ignition point:	n/a
Decomposition temperature:	no data available
Viscosity:	ca. 3000 mPas
Explosive properties:	no explosive properties
Oxidising properties:	no data available
OTHER INFORMATION	
	none

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SECTION 10: STABILITY AND REACTIVITY

Reactivity:	no data available
Chemical stability:	stable under normal conditions of use
Explosive properties:	the product does not cause an explosion
Oxidising properties:	no data available
OTHER INFORMATION	
	none

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Substances:	not applicable
Mixtures:	not applicable

Acute toxicity of the mixture ingredients:

Titanium dioxide		
Acute toxicity	Ld50 digestive system	> 5000 mg / kg of body weight
Irritating / corrosive effect	On the skin / on the eyes / on the respiratory tract	non-irritating
Sensitising effect	Not sensitising	
Repeated dose toxicity	NOAEL digestive system	3500 mg / kg of body weight / day (chronic toxicity in rats)
	NOAEC airway target organ: lungs	10 mg.m3 (chronic toxicity in rats)
Mutagenic activity	Genetic toxicity: negative	
Carcinogenicity	Detailed epidemiological studies did not show a cause and effect relationship between the exposure of titanium dioxide and the risk of cancer in humans. No human hazard was observed. There was no risk of developing lung cancer when exposed to titanium dioxide in the workplace.	
Toxic effects on reproduction	No risk of reproductive toxicity.	

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SECTION 12: ECOLOGICAL INFORMATION

TOXICITY OF THE SUBSTANCE

not applicable

TOXICITY OF THE MIXTURE:

no data available

Ecotoxicity of the mixture ingredients:

Titanium dioxide does not meet the toxicity criterion (T)

Assessment of threats to the aquatic environment (including sediment)

Short-term toxicity of fish
 LC50 for freshwater fish: 1000 mg / l
 LC50 for marine fish: 10000 mg / l

Short-term toxicity to aquatic invertebrates
 EC50 / LC50 for freshwater invertebrates: 1000 mg / l
 EC50 / LC50 for marine invertebrates: 10000 mg / l

Algae and aquatic plants
 EC50 / LC50 for freshwater algae: 61 mg / l
 EC50 / LC50 for marine algae: 10,000 mg / l
 EC10 / LC10 or NOEC for freshwater algae: 12.7 mg / l
 EC10 / LC10 or NOEC for marine algae: 5,600 mg / l

Toxicity to aquatic microorganisms
 EC50 / LC50 for microorganisms: 1,000 mg / l
 EC10 / LC10 or NOEC for aquatic microorganisms: 1000 mg / l

Benthic organisms
 EC50 / LC50 for freshwater sediments: 100,000 mg / l of sludge per dry mass
 EC50 / LC50 for marine sediments: 14,989 mg / l sludge per mass
 EC10 / LC10 or NOEC for freshwater sediments: 10,0000 mg / l sludge per mass

Assessment of threats to the terrestrial environment

Toxicity of arthropods
 Long-term EC10 / LC10 or NOEC arthropods staying in the ground: 1,000 mg / l dry weight of the soil

Toxicity to terrestrial plants
 Long-term EC10 / LC10 or NOEC terrestrial plants: 10,000 mg / l. Dry soil (monocotyledonous and dicotyledonous plants)

Toxicity to earth microorganisms
 Long-term EC10 / LC10 or NOEC for terrestrial microorganisms: 1,000 mg / l dry earth mass

PERSISTENCE AND DEGRADABILITY

persistent under normal conditions of use

BIOACCUMULATION POTENTIAL:

no data available

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MOBILITY IN SOIL:	
	no data available
RESULTS OF PBT AND VPVB ASSESSMENT:	
	not applicable
OTHER ADVERSE EFFECTS:	
	none

SECTION 13: DISPOSAL CONSIDERATIONS

METHODS OF DISPOSING WASTE	
	Observe the provisions of the Waste Act (Journal of Laws 2013 item 21)
package content by type:	08 01 20 aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
packaging by type:	15 01 02 plastic packaging

SECTION 14: INFORMATION ON THE SUBSTANCE OR PREPARATION TRANSPORT

UN NO.	
	n/a
PROPER UN TRANSPORT NAME	
	n/a
TRANSPORT HAZARD CLASS(ES)	
	n/a
PACKAGING GROUP	
	n/a
ENVIRONMENTAL HAZARDS	
	based on available data unknown

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SPECIAL PRECAUTIONS FOR USER

n/a

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

n/a

SECTION 15: INFORMATION ON LEGAL REGULATIONS PERTAINING TO THE SUBSTANCE OR PREPARATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

COMMISSION REGULATION (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND COUNCIL of 18 December 2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and establishing the European Chemicals Agency, amending Directive 1999/45 / EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769 / EEC and Commission Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (EC) No 1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC and amending Regulation (EC)) No. 1907/2006

DIRECTIVE 1999/45 / EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 on the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations

THE ACT on chemical substances and mixtures thereof from February 25, 2011. (Dz.U.2011 No. 63, item 322)

Regulation of the Minister of Health of 20 April 2012 on the labelling of packaging dangerous substances and dangerous mixtures as well as some mixtures (Dz.U.2012 no. 0 poz.445)

Regulation of the Minister of Health of 10 August 2012 on the criteria and method classification of chemical substances and their mixtures (Official Journal of Laws no. 0, item 1018)

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	RREGULATION OF THE MINISTAR OF JOB AND SOCIAL POLICY of 06 June 2014 on the highest allowable concentrations and intensities of agents harmful to health in the work environment (Journal of Laws of 2014, item 817)
	Regulation of the Minister of Economy of 29 March 2012 (Dz.U.2012 item 510) amending the regulation on specific requirements regarding the restriction of volatile organic compounds resulting from the use of organic solvents in certain paints and varnishes and in vehicle refreshing mixtures (Dz. U. of 2007 No. 11, item 72 with amendments of OJ 2011 No. 94, item 555)
	REGULATION OF THE MINISTAR OF JOB AND SOCIAL POLICY of 26 September 1997 on general provisions for occupational safety and health (Journal of Laws of 1997 No. 129 item 844) as amended (Journal of Laws of 2003 No. 169 item 1650, Journal of Laws of 2007 No. 49, item 330, Journal of Laws of 2008 No. 108, item 690)
	Waste Act (Journal of Laws 2013 item 21)
	REGULATION OF THE MINISTER OF THE ENVIRONMENT of December 9, 2014 regarding the waste catalog (Journal of Laws of 2014, item 1923)
CHEMICAL SAFETY ASSESSMENT:	
	n/a

SECTION 16: FURTHER INFORMATION

WORDING OF PHRASES USED IN SECTION 3

Acute Tox.3	Acute toxicity category 3
H 301	Toxic if swallowed
Acute tox.2	Acute toxicity category 2
H 310	contact with the skin can lead to death
H 330	Inhalation can lead to death
Acute Tox.4	Acute toxicity category 4
H 302	Harmful if swallowed
Skin Coor.1B	Corrosive to skin category 1B
H 314	H 314 Causes severe skin burns and eye damage
Skin Sens. 1B	Skin sensitisation category 1B
H 317	May cause an allergic skin reaction

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STOT RE2	Specific target organ toxicity - repeated exposure - category 2
H 373	May cause damage to organs (lungs) through prolonged or repeated exposure through inhalation
Aquatic Acute 1	Hazardous to the aquatic environment Category 1
H 400	Very toxic to aquatic organisms
Aquatic Chronic 1	Hazardous to the aquatic environment Category 1
H 410	Very toxic to aquatic life with long lasting effects
R61	may cause harm to the unborn child
MODIFICATIONS MADE TO THE MSDS IN CASE OF UPDATE	
	update

THE INFORMATION IS DEVELOPED BASED ON CURRENT KNOWLEDGE, INCLUDING MSDSES OF PRODUCT COMPONENTS AND REFERS TO THE PRODUCT IN THE FORM AS IT IS USED.

THE DATA CONTAINED HEREIN SHALL BE USED ONLY AS AN AID IN SAFE HANDLING IN TRANSPORT, DISTRIBUTION, USE AND STORAGE. THE USER IS FULLY RESPONSIBLE TO DETERMINE SUITABILITY:

OF THE PRODUCT TO PARTICULAR APPLICATIONS AND SHALL BE HELD LIABLE FOR CONSEQUENCES OF IMPROPER USE OF THE INFORMATION CONTAINED HEREIN.

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ABBREVIATIONS:

NDS	Highest admissible concentration at the workplace - the maximum permissible concentration of weighted averages, the impact on the employee during the 8-hour working time, throughout his period of professional activity, should not cause changes in his health and health of his future generations
NDSCh	Highest admissible instant concentration - maximum permissible instant concentration established as an average value, which should not cause negative changes in the health condition of the employee and in the health of his future generations if he stays in the work environment for no longer than 30 minutes during the working shift
NDSP	The highest permitted ceiling concentration
vPvB	Substance very persistent and very bioaccumulative
PBT	Substance persistent, bioaccumulative and toxic
DL ₅₀	Deadly dose - the dose at which deaths of 50% of the tested animals are observed within a specified time interval
CL ₅₀	Lethal concentration - the concentration at which death of 50% of the animals tested is observed over a specified time interval
CI ₅₀	Media concentration causing 50% inhibition of a given parameter, e.g. growth in a given time interval
CE ₅₀	Media concentration causing 50% inhibition of a given parameter, e.g. growth in a given time interval
LC ₅₀	The concentration at which deaths of 50% of the organisms studied are observed
LD ₅₀	The dose at which death of 50% of the organisms studied is observed
EC ₅₀	effective concentration 50%
BCF	Bioconcentration factor (bio concentration) - the ratio of the concentration of substances in the body to its concentration in water at steady state
DNEL	Derived level that does not change
PNEC	Predicted concentration that does not cause changes in the environment
NOEL	The highest concentration of the substance at which no effects are observed
NOAEL	Dose level at which no harmful changes are observed
ADR	European agreement concerning the international carriage of dangerous goods by road (Agreement on Dangerous Goods by Road)
CAS	the number assigned to the chemical in the Chemical Abstracts Service list
WE	reference number used in the European Union for the identification of dangerous substances, in particular those registered in the European Inventory of Existing Chemical Substances (EINECS), or in the European List of Notified Chemical Substances ELINCS (European List of Notified Chemical Substances), or the list of chemicals listed in the publication "No-longer polymers"
UN number	a four-digit material identification number in the UN Dangerous Material List derived from the UN Model Regulations, to which a material, mixture or object is classified