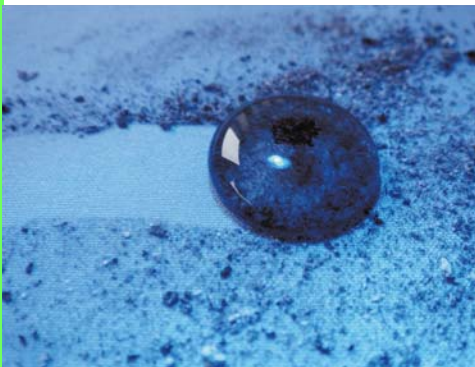




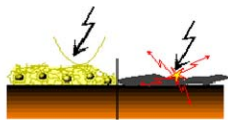
# NANO-X GmbH



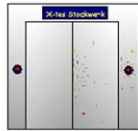
## Delivery Programme

Coating Materials  
Binders  
Additives

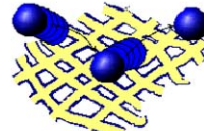
# Product Overview



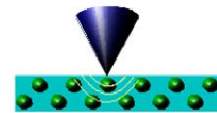
Scale Protection



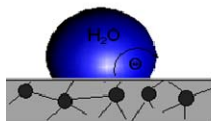
Touch Protection



Impregnation for Leather and Textiles

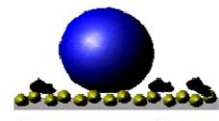


Scratch resistance



Easy-to-Clean

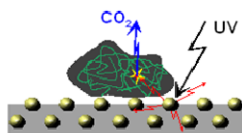
## Fields of Application



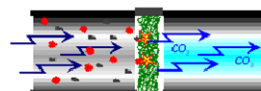
Impregnation for Stones



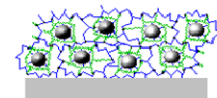
Hydrophilic/Antifog



Photocatalysis



Thermocatalysis



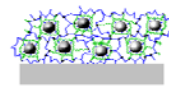
Corrosion Protection

Catalytic-Clean-Effect®

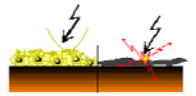
## Content

Corrosion and Scaling Protection	2
Catalytic-Clean-Effect®	2
Scratch resistant Coatings	3
Anti-fingerprint	3
Easy-to-Clean	4
Impregnations	4
Binders	5
Additives	6
Paints	7
Anti-fog/Hydrophilic	7

## Corrosion and Scale Protection



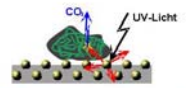
Corrosion Protection



Scale Protection

Product	Field of Application	Application	Curing	Note
x-tec® CO 4017	Steel	Rolling (Coil Coating)	Thermal	2-component-System Scaling Protection Solvent-based
x-tec® CO 4019	Steel	Spraying	Thermal	2-component-System Scaling Protection Solvent-based
x-tec® CO 4020	Steel	Rolling (Coil Coating)	Thermal	1-component-System Scaling Protection Solvent-based
x-tec® CO 4028	Steel	Spraying Dipping Flowing	Thermal	Corrosion Protection Solvent-based
x-tec® CO 4029	Steel	Spraying Dipping Flowing	Thermal	Corrosion Protection High Temperature resistant Solvent-based

## Catalytic-Clean-Effect®



Catalytic-Clean-Effect®

Product	Field of Application	Application	Curing	Note
x-view® PK 1207	Glass Ceramic	Spraying Flowing	RT/Thermal	Solvent-based DIY-System
x-view® PK 2111	Glass Ceramic	Spraying Flowing	RT/Thermal	Water-based DIY-System
x-clean® PK 3015 P	Non- transparent plastics	Spraying Flowing	Thermal	Primer Solvent-based
x-clean® PK 3015 F	Non- transparent plastics	Spraying	Thermal	Functional Layer Solvent-based
x-clean® PK 3033 P	Non- transparent plastics	Spraying Flowing	Thermal	Primer Water-based
x-clean® PK 3033 F	Non- transparent plastics	Spraying	Thermal	Functional Layer Water-based
x-clean® PK 1245	Glass Ceramic	Spraying Flowing	Thermal	Abrasion-resistant Solvent-based
x-clean® PK 3046	PC PMMA	Spraying Flowing	Thermal	Abrasion-resistant Solvent-based

## Scratch resistant Coatings



Product	Field of Application	Application	Curing	Note
x-protect® KR 3611	PC, PMMA, Polyester, PVC, Polystyrene Anodized Aluminium	Spraying Dipping Flowing Spinning Printing	UV	Solvent-based  (Photoinitiator separately available)
x-protect® EC 7003	Concrete Stone	Rolling	UV	1-Component-System High Gloss Solvent-based High Solid
x-protect® EC 7017	Concrete Stone	Rolling	UV	2-Component-System Low Gloss Solvent-based High Solid

## Anti-Fingerprint



Product	Field of Application	Application	Curing	Note
x-clean® AF 4001	Matt Chrome Matt Nickel	Spraying	Thermal	Water-based Tribological System
x-clean® AF 4021	Structured Stainless Steel	Spraying	Thermal	Water-based Fluorinated
x-clean® AF 4023	Structured Stainless Steel	Spraying	Thermal	Water-based Non-Halogen
x-clean® AF 4037	Structured Stainless Steel	Spraying	Thermal	Solvent-based Also for outdoor application
x-clean® AF 4040	Structured Stainless Steel	Spraying	Thermal	Water-based Enhanced Abrasion Resistance
x-clean® AF 4042	Structured Stainless Steel	Spraying Coil Coating	Thermal	Deformable Solvent-based
x-clean® AF 4044	Structured Stainless Steel	Spraying Coil Coating	Thermal	Deformable Solvent-based High chemical Resistance

## Easy-to-Clean

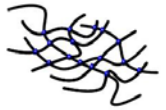


Product	Field of Application	Application	Curing	Note
x-clean® EC 1206	Glass Ceramic	Polishing Spraying	RT/Thermal	Solvent-based DIY-System Anti-Lime proper- ties
x-clean® EC 2115	Glass Ceramic	Spraying	Thermal	Solvent-based Concentrate Dilutable with Water
x-clean® EC 4008	Metals	Polishing Spraying	RT/Thermal	Water-based DIY-System
x-clean® AO 7011 F	Mineral Surfaces	Spraying	RT	Water-based Anti-Algae-Effect DIY-System
x-clean® EC 7047	Mineral Surfaces (Granite)	Rolling Spraying	Thermal	Water-based
x-clean® EC 2048	Ceramic	Spraying Brushing	RT	Solvent-based For Ceramic Rolls in High- Temperature Kilns

## Textile Finishing

Please see our delivery programme for textile finishings





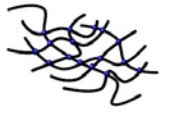
Bindemittel  
und Additive

## Binders

Product	Field of Application	Application/ Properties	Curing	Note
x-bond® E 9013 x-bond® E 9014 x-bond® E 9015 x-bond® E 9017	Lacquers Paints Binders	e.g. Textiles, Corrosion Protection	Thermal	Epoxy-modified Polymerisates based on SiO <sub>2</sub> with different Solid Contents (up to 45%), Particle Sizes (10-50nm) and Ratios Mol Epoxy/kg (0,7-1,8) Water-based Binder, also usable as an Additive
x-bond® M 9004 x-bond® M 9006 x-bond® M 9028	Lacquers Paints Binders	Scratch and Chemical Resistance	UV	Methacrylate-modified Polymers based on SiO <sub>2</sub> /ZrO <sub>2</sub> with different Solid Contents and Network Densities Solvent-based
x-bond® T 9027 x-bond® T 9028 x-bond® T 9029	Lacquers Paints Binders	High tempe- ratur stability up to 500°C	Thermal	Inorganic Polymers based on SiO <sub>2</sub> or SiO <sub>2</sub> /ZrO <sub>2</sub> with different Solid Contents High Temperature resistant Solvent-based
x-bond® U 9044	Lacquers Paints Binders	Abrasion and Chemical Resistance Flexible	Thermal	Inorganic-organic Polymer with fully cross-linked Urethane-Units Solvent-based Catalyst: e.g. x-add® KR 9006 <b>SiliXan®-Technology</b>
x-bond® U 9051	Lacquers Paints Binders	Abrasion and Chemical Resistance Flexible	RT/Thermal	Inorganic-organic Polymer with fully cross-linked Urethane-Units Solvent-based Catalyst: e.g. x-add® KR 9009 <b>SiliXan®-Technology</b>

Distribution partner for **SiliXane®** **WORLÉE®**  
 Worlée-Chemie G.m.b.H.  
 Grusonstraße 22  
 22113 Hamburg / Germany  
 Tel.: +49 (0)40 73333 2500  
 Fax.: +49 (0)40 73333 2450  
 E-Mail: [Handel@ch.worlee.de](mailto:Handel@ch.worlee.de)  
 Web: [www.worlee.de](http://www.worlee.de)

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## Additives

Product	Field of Application	Application	Curing	Note
x-add <sup>®</sup> EC 9001	Lacquers Paints Binders	Substrate- dependent	UV	Additiv with Easy-to-Clean Properties
x-add <sup>®</sup> BF 9002	Lacquers Paints Binders	Substrate- dependent	Substrate- dependent	Additiv with Silver Nanoparticles Antibacterial Hydrophobic
x-add <sup>®</sup> BF 9003	Lacquers Paints Binders	Substrate- dependent	Substrate- dependent	Ionic Silver Salt Antibacterial
x-add <sup>®</sup> KR 9006	Lacquers Paints Binders	Substrate- dependent	Substrate- dependent	Curing and Drying Catalyst based on Aluminium Oxide
x-add <sup>®</sup> KR 9009	Lacquers Paints Binders	Substrate- dependent	Substrate- dependent	Curing and Drying Catalyst based on Acid
x-add <sup>®</sup> EC 9016	Lacquers Paints Binders	Substrate- dependent	Substrate- dependent	Additiv with Easy-to-Clean Properties Fluorinated
x-add <sup>®</sup> EC 9018	Lacquers Paints Binders	Substrate- dependent	Substrate- dependent	Curing and Drying Catalyst based on Acid
x-add <sup>®</sup> EC 9019	Lacquers Paints Binders	Substrate- dependent	Substrate- dependent	Curing and Drying Catalyst based on Acid
x-add <sup>®</sup> EC 9024	Lacquers Paints Binders	Substrate- dependent	Substrate- dependent	Easy-to-Clean- Additiv Non-Halogen

## Paints

Product	Field of Application	Application	Curing	Note
x-coat <sup>®</sup> Black 4001	Aluminium	Rolling Spraying	Thermal	Black Coating Material Temperature resistant up to 500°C Food Grade Solvent-based
x-coat <sup>®</sup> Black 4002	Aluminium	Rolling Spraying	Thermal	Black Coating Material Temperature resistant up to 500°C Solvent-based
x-coat <sup>®</sup> Black 4003	Aluminium	Rolling Spraying	Thermal	Black Coating Material Temperature resistant up to 500°C Solvent-based Deep-drawable

## Anti-fog/Hydrophilic



Hydrophilic/Antifog

Product	Field of Application	Application	Curing	Note
x-tec <sup>®</sup> HP 3408	Plastics Metals	Spraying Dipping	Thermal	Hydrophilic Water-based
x-tec <sup>®</sup> HP 4014	Metals	Spraying	Thermal	Hydrophilic Water-based
x-tec <sup>®</sup> HP 4015	Metals	Spraying	Thermal	Hydrophilic Solvent-based
x-view <sup>®</sup> AB 3011	Plastics	Spraying	Thermal	Anti-fog Solvent-based



**Important notice:** Some of the presented products in this catalogue come under exclusive rights and are available only on request for the free fields of application.

For further information and technical support please contact our application technology or R&D department.

**NANO-X GmbH**  
**Theodor-Heuss-Str. 11a**  
**66130 Saarbruecken**  
**GERMANY**

**Phone +49 (0)681-95940-0**  
**Fax +49 (0)681-95940-15**  
**E-Mail: [info@nano-x.de](mailto:info@nano-x.de)**  
**Web: [www.nano-x.de](http://www.nano-x.de)**

