### Elastomeric spray coatings and repair materials offering protection against wear, impact, erosion and corrosion

### MetaLine® Series 700 Cartridge Spray Coating

. . . the new liquid repair rubber coating to reduce cost and conserve resources





#### **Process**

Metal ine Series 700



### MetaLine® Series 700

Rubber-like sprayable wear protection to solve erosion, corrosion and wear problems directly on site

For more than 50 years, MetaLine has been involved with synthetic coating materials to recover and protect surfaces from the dangers of wear and tear.

**MetaLine Series 700** is a material concept combining the efficiency and performance of vulcanized rubber coatings with the simple processing of epoxy-ceramics for extreme lifetime improvements! In conjunction with the novel cartridge spray processing, this presents a **milestone** in the protection of metal structures!

Natural rubber is a proven wear and corrosion protection material, however, with **seams** that can fail, restricted reparability and its equipment intensive need for field vulcanization. Rapid in-situ lining is generally not possible. When repairs need to be carried out, quite often epoxy-ceramic products are used due to the ease of application. However, replacing rubber with plastic filled compounds is a questionable approach and not generally to be recommended . . .

MetaLine Series 700 is an elastomeric material system that offers a different solution. This new product combines rubber quality features with a novel cartridge spray process. Using this technique, it is possible to apply **sprayable elastomer wear protection coatings** - directly on site - professionally, **rapidly** and **seamlessly**. The product is based on a special PUR-Elastomer technology that does not require vulcanization.

By means of the MetaLine cartridge spray gun, the coating is mixed and sprayed automatically. The result is a hydrodynamic resistant protective coating, developing unprecedented **erosion resistance**. Its stability is several times higher in comparison with conventional wear protective rubber coatings!

MetaLine Series 700 is extremely convincing owing to its simple spray application process and the extraordinary **surface smoothness** and resultant improvement in **flow efficiency**. Efficiency increases of up to 3.5 % has been proven.

The process is suitable for the complete protection of metal components as well as the repair of existing rubber linings.



Daily repair routine – can no longer be repaired with traditional technologies available on site. No responsible wants to be in such a situation any more...



And that's the way it should rather be – the MetaLine component generation: repairs offering the same resistance as original spare parts but which are by far cheaper . . .





### Material-Details

Metal ine Series 700



#### The Product

MetaLine Series 700 is a **solvent-free** two-component elastomer. Application is carried out by spraying, injection or casting. Polymerization begins after 1 minute so that even on vertical surfaces layer thicknesses between 1 and 20 mm can be achieved without the material sagging. MetaLine Series 700 products can be used directly on site in almost **any climatic** conditions conditions (even in high humidity).

MetaLine Series 700 adheres to almost any substrate, including steel, brass, aluminum, bronze, concrete, rubber, wood and most plastics. It is not necessary to heat the components to be coated. After approximately 5 minutes, the coating is dry to touch and commissioning can be carried out after 24 hours (at 20 °C). Temperature resistance is between -50 °C and +120 °C, depending on the relevant application.

MetaLine Series 700 hardens without any tension and in addition to its chemical adhesion develops a mechanical **memory effect**. This draws the coating permanently against the substrate thus counteracting any separation tendency as it is the case with conventional rubber sheets. In addition, MetaLine Series 700 can be recoated and repaired!

There are 3 different degrees of hardness available:

- **MetaLine 760** (60 Shore A) serves to repair damaged soft rubber linings or conveyor belt top covers
- **MetaLine 785** (85 Shore A) is the first choice for the protection of components subjected to wear, erosion or cavitation
- **MetaLine 795** (95 Shore A) develops non-stick properties owing to the low coefficient of static friction and prevents bridging, e.g. in hoppers

MetaLine Series 700 coatings are particularly user friendly and have also been assessed by the US authorities as drug and **food-safe** according to FDA standards.

The strength of MetaLine Series 700 lies in its erosion and cavitation resistance which is **comparable** with high-alloy steels and **armors**. With a density of 1.05 g/cm³ it is the most **lightweight** duroplastic wear protection concept available, and the potential energy savings when applied to impellers and rotors, are considerable.

#### **Application Process**

The novel MetaLine cartridge spray process is based on **low-pressure spraying** in connection with pneumatically controlled material flow.

By means of the MetaLine **cartridge spray gun** the twocomponent coating is automatically and precisely mixed with no possibility of 'off-ratio' problems that can be associated with conventional two-component products.

Similar to a 'DIY' spray can, only the required amount of material is removed. There is no mixed waste, and partially used cartridges can be reused again at a later point in time.

Mixing is undertaken via an in-line plastic disposable mixer acting in conjunction with an atomizer nozzle. The spray gun does not come into contact with the coating material so that the **tool does not have to be cleaned** after finishing the work.

Spraying is similar to wet-paint processing, although no solvents are used here. Merely compressed air with 5 bar pressure and a volume amounting approximately to 300 liters is necessary.

The MetaLine cartridge gun has been designed for rough working atmospheres and is maintenance free. Investment cost is below 1.000,- EUR!





Abrasion / erosion-resistant

**Permanently elastic** 

Sprayable and moldable

Shock-absorbing

Glide enhancing or slip-resistant

**Corrosion-resistant** 



### Technical Data

MetaLine Series 700



### MetaLine® Series 700 Spray Elastomers

	MetaLine 760	MetaLine 785	MetaLine 795
Hardness (Sprayed / Casted) (A.S.T.M. D2240-68)	60 / 65 Shore A	82 / 85 Shore A	95 / 98 Shore A
<b>Density</b> (DIN 53 479)	1.10 g/cm <sup>3</sup>	1.05 g/cm <sup>3</sup>	1.05 g/cm <sup>3</sup>
Tensile Strength (A.S.T.M. D412-68)	20 N/mm <sup>2</sup>	20 N/mm <sup>2</sup>	24 N/mm²
Tensile Modulus at 100 % Elongation (A.S.T.M. D412-68)	6 N/mm <sup>2</sup>	7 N/mm <sup>2</sup>	13 N/mm²
Tear Resistance (DIN 53 515)	68 N/mm	55 N/mm	68 N/mm
Elongation at Break (A.S.T.M. D412-68)	650 %	380 %	275 %
Bashore Resilience (DIN 53 512)	63 %	45 %	27 %
Coefficient of Thermal Conductivity (DIN 52 612)	0.2 W/K·m	0.2 W/K·m	0.2 W/K·m
<b>Dielectric Surface Resistivity</b> (DIN 53 482)	7 x 10 <sup>10</sup> Ohm	7 x 10 <sup>10</sup> Ohm	7 x 10 <sup>10</sup> Ohm
Dielectric Breakdown Voltage (DIN 53 841)	> 5 Kv/mm	> 5 Kv/mm	> 5 Kv/mm
Temperature Resistance (dry / wet)	+100 °C / +60 °C	+120 °C / +60 °C	+120 °C / +60 °C
<b>Taber Abrasion</b> (A.S.T.M. D1-044-73 - H-22 Wheels, dry, 1 kg, 1.000 U)	n.d.	8.2 mg	10.5 mg
Abrasion (DIN 53 516)	80 mm <sup>3</sup>	70 mm <sup>3</sup>	n.d.
Coefficient of Static Friction (DIN EN ISO 8295)	$\mu(0) = \text{approx. } 0.7$	$\mu(0) = \text{approx. } 0.6$	$\mu(0) = \text{approx. 0.2}$
Solids Contents (DIN EN ISO 3251)	100 %	100 %	100 %
Processing Time (at 50 °C)	7 minutes	1 minutes	1 minute
<b>Solidification</b> (at 20 °C - dependent on stress)	> 1.5 days	> 1 day	> 1 day
Coverage (Theoretical Film Thickness 1 mm)	1.20 kg/m <sup>2</sup>	1.20 kg/m <sup>2</sup>	1.20 kg/m <sup>2</sup>









### Fields of Application

MetaLine Series 700













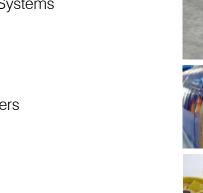






MetaLine® Series 700 - wear protection system for the repair of damaged rubber linings or elastomeric in-situ coating of metal structures

- Screening Machines
- Conveyor Belts
- Drive Cylinders
- Flotation Tanks
- OTR Tires
- Pump Impellers
- Suction Dredger Tubings
- Fans
- Thickeners
- Floating Pipes
- Slurry Pipes
- Cyclones
- Drum Screening Frames
- Elevator Buckets
- Pipe Bends
- Concrete Conveying Systems
- Guide Pulleys
- Pump Casings
- Chutes / Troughs
- Conveyor Belt Fasteners
- Process Vessels
- Screen Decks
- Pipelines
- Tanks / Silos
- Mixers

















Wear protection
Corrosion protection
Shock absorption

Cavitation protection

Non-stick function

Noise deadening

### Part Protection

MetaLine Series 700



### General mining

Sprayable elastomeric coatings for wear protection to be applied directly on site under adverse climatic conditions. Viscous, extremely tough and durable - can be repaired and overcoated at any time

- Spiral classifiers
- Process vessels
- Cyclones
- Separators





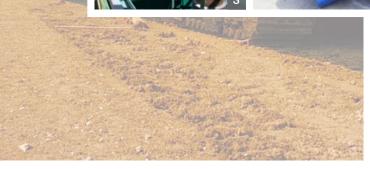








- 1 Durable corrosion protection 3 mm MetaLine 785
- 2 MetaLine elastomers unbeatable on complex surfaces
- 3 Coated on the spot with the cartridge gun
- 4 New, used or worn a job for MetaLine
- 5 Long-lasting surface protection of the latest generation
- 6 Resistant agitator protection for abrasive media (slurry)



### **Abrasion Protection**

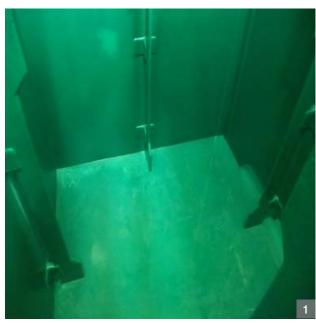
MetaLine Series 700

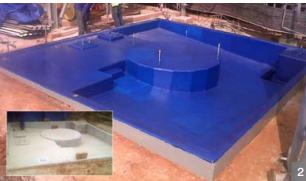


# General mining

Sprayable and completely seamless surface protection with rubber properties but without the need for vulcanization. Tearresistant, impact-absorbing and extremely robust against aggressive permanent stresses

- Agitators
- Magnetic separators
- Process tanks
- Collection containers















- 1 Seamless spray rubber coatings without the use of machines . . .
- 2 Directly from the cartridge to a concrete surface leak-proof and permanently flexible
- 3 Smooth, flow-optimized, without seams but nevertheless rubber
- 4 Impact-elastic MetaLine protection on this agitator
- 5 Eriez magnetic separator coated with MetaLine 785
- 6 On site, in the cold, a tough job no problem for MetaLine

### Value Preservation

MetaLine Series 700



## Screen decks











- 1 Machine for saltwater use seamlessly rubber coated in liquid form
- Coated on the inside and on the outside a maximum protection concept
- 3 No edges, joints or transitions owing due to processing by means of spraying
- 4 Wear resistance comparable to rubber, processing as easy as painting
- 5 On surfaces where no rubber plate fits anymore MetaLine
- 6 Variable layer thickness to suit requirements and stress involved

### Wear Protection



### Screen frames **Filters**

Sprayable elastomeric coatings for seamless liquid rubber coating. Protects, maintains and safeguards the screening function. Wear-resistant, easy to clean and vibration-resistant

- Screen frames
- Drum screens
- Vibratory screens













- This solution is perfect when dimensional accuracy is a must
- Spraying, protecting, functioning, reducing cost . . .
- Good wear protection can also be pleasant to the eye . . .
- An unbeatable solution when it comes to construction: seamless, elastomeric
- Elastomeric solutions not possible by using rubber
- One special detail which makes the difference MetaLine spray rubber coatings



### **Abrasion Protection**

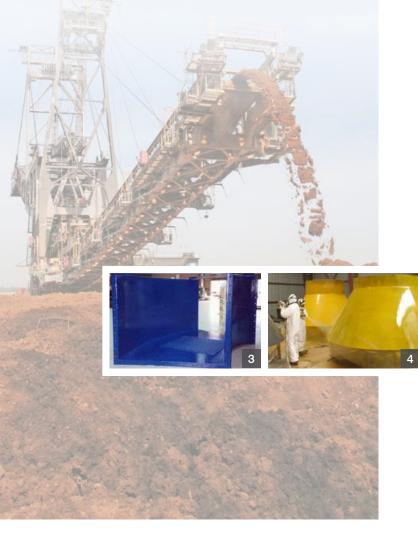
MetaLine Series 700



## Flotation accessories

Sprayable elastomeric liquid coatings for rubber-like protection against grinding, scratching, impacting and abrasive stresses. Processable and operational within short periods of time

- Flotation cells
- Distributors
- Screen frames
- Thickeners











- 1 A solution not possible by using vulcanized rubber . . .
- 2 Variable layer thicknesses are above all invaluable for pipe bends
- 3 More than color, more than rubber a strong material idea
- 4 MetaLine stands its grounds as OEM or repair product
- 5 Professional and fast repairs on flotation cells
- 6 The more complex the surface the more superior MetaLine's behavior

### Corrosion Protection



### **Flotation** tanks

Sprayable elastomeric liquid coatings. Duplex corrosion protection properties. Workable under high ambient temperatures and high humidity in situ. Extremely robust, wear-resistant and durable. Longer service life than rubber

- Flotation cells
- Flotation tanks
- Flotation accessories
- Attritors (wet milling)











- On-site repair coating even when installed
- New lining by means of two-component spraying unit
- 3 Seamless and jointless elastomeric liquid lining
- Resists striking, scratching, grinding and flushing
- Partial repair of a damaged rubber lining
- Coating over several 1000 m<sup>2</sup> that's also typical for MetaLine



### Functional Safety

MetaLine Series 700



### Slurry Pipelines

Pourable and sprayable elastomeric coatings for long-term surface protection. Can be applied in any required layer thickness. Good chemical resistance. Free of metal, permissible for pure minerals. Also suitable for flange sealing

- Pipelines
- Connectors
- Pipe bends
- Manifolds



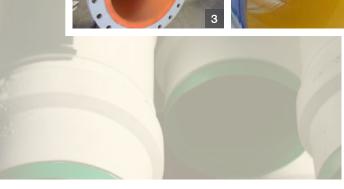








- 1 Thick, seamless, wear-resistant, durable, proven
- 2 Longitudinally split pipe bends the optimum wear protection
- 3 Locally increasing layer thickness functional and cost-effective
- 4 Seamlessly elastomerified at the construction site with MetaLine
- 5 Seamless transition from the flange to the internal lining
  - 6 MetaLine also offers the perfect solution for external protection



### **Erosion Protection**

MetaLine Series 700



## Open impellers

Seamlessly sprayable elastomeric coatings for erosion protection. Resists high dynamic stresses. Extremely smooth surface. Optional with non-stick properties. Energy-saving and efficiency-increasing

- Impellers of mild steel
- Impellers of stainless steel
- Impellers of brass
- Impellers of PUR elastomers
- Impellers of rubber
- Impellers of plastic













- 1 MetaLine also works for the most demanding applications
- 2 Coated brass impeller to make it slurry resistant
- 3 Life-time extension and cost reduction thanks to MetaLine
- 4 The MetaLine spraying technology is suitable for any designs
- Elastomeric long-term wear protection on sewage treatment plant pumps
- 6 Repaired pump impeller made of solid rubber



### Wear Minimization

MetaLine Series 700



# Closed impellers

Seamlessly sprayable elastomeric coatings for life-time optimization. Especially resistant against erosion and cavitation. Low area weight. Hydrodynamically optimized surface structure. Vibration-neutral

- Impellers of mild steel
- Impellers of stainless steel
- Impellers of brass
- Impellers of PUR elastomers
- Impellers of rubber
- Impellers of plastic











- 1 Reworked mining impeller (Warman) with a chromium content of 28%
- 2 MetaLine unbeatable when it comes to smoothness and evenness
- 3 Where a paintbrush won't fit anymore, MetaLine shows its true value
- 4 Life-time extension by approximately 450% compared to grey cast iron
- 5 25 mm layer thickness on this suction dredger impeller
- 6 Up to 3.5% efficiency improvement compared to cast steel



### Substance Preservation

MetaLine Series 700



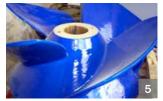
## Impellers (special forms)

Seamlessly sprayable elastomeric coatings for surface protection of dynamized components. Freely definable layer thicknesses and layer thickness geometries. FDA-compatible (conform to pharmaceutical and partly food grade specifications)

- Impellers of mild steel
- Impellers of stainless steel
- Impellers of brass
- Impellers of PUR elastomers
- Impellers of rubber
- Impellers of plastic









- 1 A 2 mm thick MetaLine liquid rubber coating without seams/joints
- 2 Complicated structural shapes are in need of high-end coatings
- MetaLine cartridge spraying technique from professionals for professionals
- 4 Conveying, mixing, stirring, kneading here MetaLine can show its true worth
- 5 Lime milk suspension pump coated with MetaLine 785
- 6 Coated for permanent use in saltwater



### Cost Reduction

MetaLine Series 700



# Spiral pump casing

Sprayable elastomeric coatings for substance preservation of machines under abrasive stress. Extreme wear resistance owing to rubber-like, seamless material properties. Efficiency improvement because of surface structures as smooth as glass

- Grey cast iron casings
- Stainless steel casings
- Duplex casings
- Special alloy casings





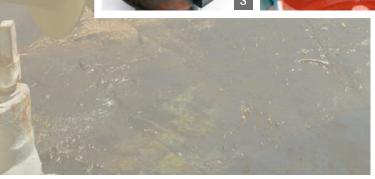








- 1 Coated pump casing from paper production
- 2 Large pump casing coated with 2 mm MetaLine 785
- Cooling water pump made of special alloys with a 8 mm thick lining
- 4 Seamlessly elastomerified MetaLine's strength
- 5 Elastomeric properties for extreme toughness
- 6 Coated Egger pump with 550 % life-time extension



### **Erosion Minimization**

MetaLine Series 700



# Split case pumps

Sprayable elastomeric coatings for reconstructing surfaces under erosive stress or for preventive protective coating. Cold and tension-free solidification. Impact and vibration resistant. In accordance with investigations carried out by pump manufacturers, better wear resistance than stainless steel (e.g. KSB Technik kompakt 10/2004)

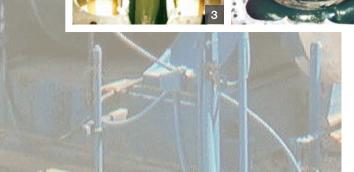
- Spiral casings
- Split case pumps











- 1 MetaLine spray coatings increase life-time
- 2 Applicable seamlessly even in confined spaces where no brush fits
- 3 Up to 50 times more resistant than ceramic filled epoxy compounds
- 4 An ultra-lightweight and cost-effective OEM solution
- 5 Smoothly coated and flow-optimized surfaces
- 6 Precise, even, seamless and above all rubber-like

### Chemical Protection

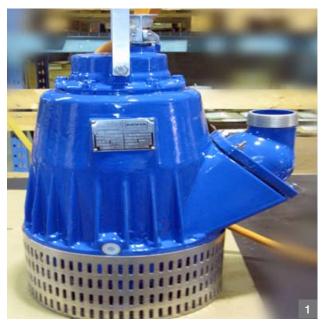
MetaLine Series 700



# Submersible pumps

Sprayable elastomeric coatings or Novolac coatings to be applied by a brush to protect inner and outer surfaces of submerged equipment against chemical, mechanical, abrasive and corrosive attacks. Self-processable, durable and particularly economical

- Waste-water pumps
- Sewage treatment plant pumps
- Lifting pumps
- Bilge pumps
- Underwater pumps
- Submersible agitators
- Flow accelerators













- 1 Not only specially protected but also very decorative
- 2 Can be used on virtually any wetted parts
- 3 Efficiency improvement by perfect surface qualities
- 4 Completely coated and thus seamlessly "wrapped" in rubber
- 5 Suitable for casings, impellers, wear plates and pipes
- 6 Flygt impeller protected elastomerically and life-time optimized



### Parts Regeneration

MetaLine Series 700



### Split pump liners

Elastomeric repair and coating materials to be applied by spraying and by means of a trowel. Life-time equal or better than is achieved with the original part. Extreme ecological sustainability by avoiding waste production and protection of resources ■ Rubber split casing liners ■ PUR elastomeric split casing liners ■ Cast steel split casing liners









- 1 Simple when it comes to repair durable regarding its function
- 2 Active environmental protection by multiple part regeneration
- 3 As cheap as a "no name replacement part" as good as an original brand part
- 4 During assembly of a regenerated semi-shell
- 5 Metal semi-shell sprayed elastomerically in cold condition and in situ
- 6 Piece weight 18 kg, repair requirement 2 kg = cost reduction

### Life-Time Extension

MetaLine Series 700



## Screw conveyors















- 1 MetaLine a well-known solution for sewage technology
- 2 A design which can only be protected by spray coating
- 3 Smooth, even, efficient and very elastic
- 4 A new generation of screw conveyor coatings
- 5 MetaLine coatings are completely metal-free
  - 6 MetaLine ensures that nothing adheres or sticks



### Wear Reduction

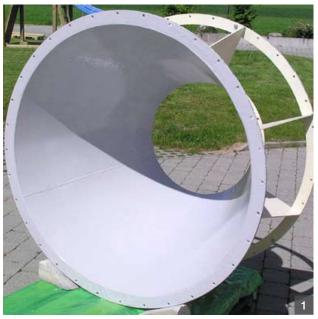
MetaLine Series 700



### Cyclones Separators

Elastomeric coatings to be applied by spraying or trowel. For repairs of existing linings or complete installations on systems in danger of wear & tear. Suitable for high flow velocities. Impact and shock-resistant

- Chip vacuum systems
- Centrifuges
- Decanter housings
- Hydrocyclones
- Turbo separators













- 1 Seamless, rubbery surfaces without any joints or seams
- 2 MetaLine unbeatable when it comes to complex surfaces
- 3 Smooth, without any surface tension and flow-optimized
- 4 Ability to be used for dry or wet separation
- 5 Can be repaired or over-coated at any time on site
- 6 MetaLine developed for increased conveying speeds . . .



### Repair Solutions

MetaLine Series 700



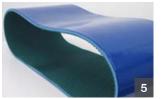
## Conveyor belts

Elastomeric repair materials to be applied by troweling, pouring or spraying. For partial repairs or constructive improvements. Rapid curing and easy to process. Wearresistant

- Rubber belts
- Chain links (increase in static friction)
- Coating of splicing devices
- Elevator buckets
- Stamping bands (increased cutting resistance)













- 1 Carrying out in-situ repairs (without vulcanization being necessary)
- 2 Permanently flexible and elastomeric coating and protection of splicing areas
- 3 Repairing longitudinal cuts over night
- 4 Liquid rubber applicable by trowel a dream for every maintenance technician
- 5 FDA-compliant finishing of special belts
- 6 Changing belt properties (e.g. non-sticking) subsequently



### **OTR Tire Repair**

MetaLine Series 700



## OTR tires

Elastomeric repair materials to be applied by trowel and also in pourable and sprayable form. High adhesive power and good mechanical resistance. Proven up to tire dimensions of 63". Usable on site, partly without dismantling

- Off-The-Road tires
- Forklift tires
- Construction machines









- 1 Completely reworked and protectively coated sidewall
- 2 During repair measures (backfilling)
- 3 Local sealing (on the outside and on the inside)
- 4 Partial sidewall repair to prevent continued tearing
- 5 Effective preparation is a basic requirement
- 6 Relugged tread of a medium-weight paddle wheel loader



### Value Preservation



### Construction machines

Elastomeric coatings applicable by spraying and by brush for non-sticking and wearprotection linings. Weatherproof, almost indestructible

- Concrete mixing truck (chutes and hopper)
- Dump truck (anti-adhesion coatings)
- Concrete pumps
- Dredging equipment
- Off-Road tires (OTR-repairs)
- Rubber chains (repairs)













- If sticking is to be avoided MetaLine liquid elastomers
- Suitable for clay, sand, salt and granulates
- 3 "Spray gum coating" in liquid form for almost any thickness
- MetaLine also offers solutions for increased temperatures
- Transparent protection for new devices safe right from the very start
- Hardly any wear, easy to clean, noise-reducing



### Investment Protection

MetaLine Series 700



### Fans Blowers

Sprayable elastomeric wear protection and anti-stick coatings. Extremely low area weight (1.05 kg/m²/mm film thickness). Impact and especially erosion-resistant. Electrically non-conducting (CANNOT be used in explosive environments)

- Fan blades / housings
- Chip extraction systems or blowers
- Pneumatic conveyor systems
- Chip blowers
- Blade housings
- Separator blades
- Propellers / impellers / rotors













- 1 Fan blade with wear-resistant non-stick coating
- 2 Low area weights are an absolute must for rotors
- 3 MetaLine coatings are multifunctional and long-lasting
- 4 Seamless, rubber-like and especially impact-resistant MetaLine 795
- 5 No risk of distortion cold-sprayed elastomeric layer
- 6 Variable in hardness, static friction, thickness, color and structure



### **Product Protection**

MetaLine Series 700



### Cylinders Rollers









- 1 In-situ elastomerification without machine processing
- 2 Seamless coating of individual parts with FDA pureness (24 h service)
- 3 Spraying technique for globular or diabolo geometries
- 4 Drive rollers with a static friction of up to 0.7
- 5 Coated drive roller with superimposed driving toothed wheel
- 6 Wear-resistant non-stick coating on conveyor belt rollers

### Processing & Costs

Metal ine Series 700



#### A process from professionals for professionals

The use of highly functional coatings requires competent **surface preparation**. MetaLine Series 700 can be applied under almost any climatic conditions, even under high humidity or increased temperatures. The surfaces to be coated need to be dry, clean, free of grease and desalinated as well as **having a surface profile**.

For producing the appropriate surface profile over small areas or areas difficult to access, the handy **MetaLine Blasting Gun SP 1** is recommended. Areas up to approximately 1.5 m² can be treated professionally with a minimum of time. Corundum with a particle size of approximately 2 mm is to be used as abrasive.





MetaLine SP1 grit blasting gun. Small, quick and cost effective – that is how to prepare surfaces!

#### Successfully coating in 3 easy steps!

- First of all, metal substrates are coated with MetaLine 924 offering borderline penetration protection. This **electro-chemically active corrosion protection** prevents borderline penetration on coating edges and protects partially damaged areas against rusting.
- After drying, MetaLine 900 Universal Primer is applied with a double coat on solid surfaces or MetaLine 910 on elastomer surfaces.
- Finally, MetaLine 700 protective coating with the required film thickness is applied!

#### And what about the material cost?

With smaller coating areas, the MetaLine Series 700 product cost amount to roughly 80 EUR/m² for a 1 mm thick coating. When comparing prices with conventional repair methods, the MetaLine technology is very convincing owing to **cost savings of up to 60** %. Particularly in regard to epoxy-ceramic compounds or synthetic rubber repair grouts, MetaLine stands for a so far unachieved cost efficiency.



Version (03/13). Prices are subject to change.

For first-time users, we recommend the **MetaLine Starterkit 10.** This is a fully equipped kit including cartridge gun, cleaning agent, primer, spare nozzles, processing instructions and also 10 kg of coating material (see illustration to the left):

#### Only 1,995 EUR ex stock Germany (net price)

The shelf life of the components amounts up to 2 years so that the system can also be used as a mere repair variant – if the need arises. With MetaLine, you can make sure that damaged parts are no longer useless . . .





- Protect
- Repair
- Save

#### For more than 50 years

MetaLine has its headquarters near Stuttgart (Southern Germany), and through our sales partners, we are represented in more than **70 countries**.

When handling our coating materials, we attach great importance on expert **instruction** and customer liaison. To realise this objective, we offer expert **training that lasts from one to several days** at our premises or if more convenient, on-site. Our experienced trainers are at your disposal!

Training can be held in German, English, French, Spanish and Italian. Also, we are able to offer discussions about concrete problems and product demonstrations by means of **online video conferences** 

Do not hesitate to contact us!

You will find MetaLine products in most industrial areas such as automation technology, mining industry and mining technology, pulp & paper, petro-chemical, power plant technology, foodstuff processing, concrete production, municipal technology, pharmaceutics, chemical industry, recycling technology, plastics processing, electrical engineering, glass processing, conveyor technology, fertilizer production, ceramic industry, surface technology, occupational safety, automotive manufacture, metal foundries, packaging technology, aeronautical engineering, textile machinery construction . . .

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