EDCORE® & EDCORE®-max

alting

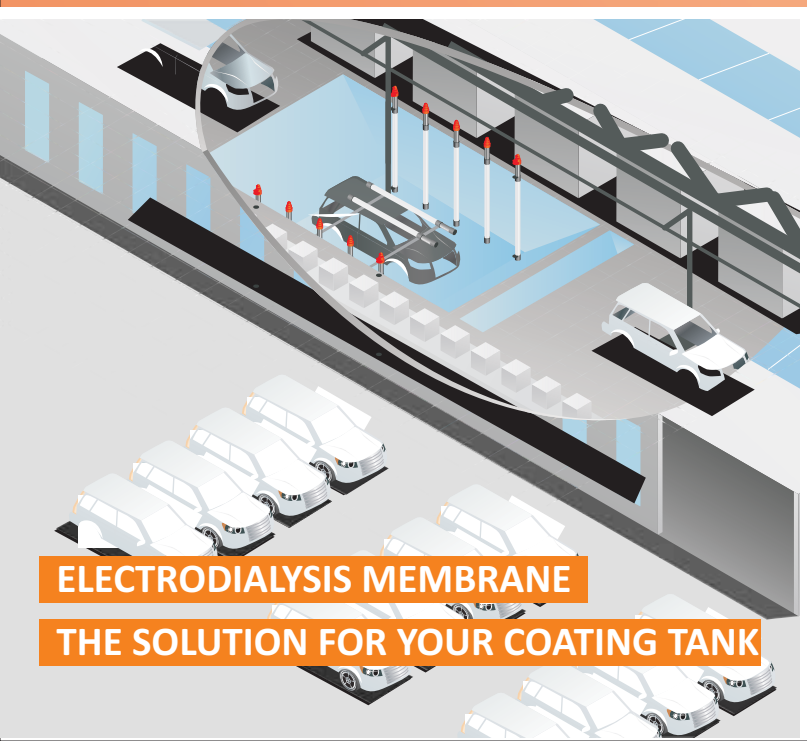
Membranes

1. ALLOW HIGH IONIC TRANSFER:
   15% to 20% greater than flat ED-membranes
2. ARE EXTRUDED AND SELF SUPPORTED:
   no grid, no glue to build a cylinder, no leakage
3. CAN BE DRIED, RE-WETTED AND USED AGAIN
4. HAVE A SMOOTH SURFACE:
   easy to clean and brush – no grid inside or outside
5. ARE NOT WATER PERMEABLE:
   no anolyte permeation during maintenance operations

EDCORE® Cells

1. ARE ENERGY FRIENDLY:
   saving 15 to 20% energy in the process
2. EXPAND FREELY FROM DRY TO WET:
   NO WRINKLES, no paint sedimentation
3. HAVE A LONG LIFE TIME:
   many installations over 10 years old
4. ALTING ALLOWS 3 YEARS WARRANTY IN AUTOMOTIVE INDUSTRIES
   QC: all EDCORE Cells are tested under water pressure
5. ARE ALL BUILT WITH DESIGNS UNDER PRESSURE:
   - allowing sized flow rates for each cell
   - optimizing energy costs for the pumps
6. ALLOW FRIENDLY MAINTENANCE-MONITORING AND CAN BE REPAIRED (SMALL CUTS: WITH EDCORE MEMBRANE PATCHES)
7. ALTING / GEOFLUID OFFERS ASSISTANCE IN SIZING, and proposes contracts for Mounting and Maintenance

ELECTRODIALYSIS CELLS



ELECTRODIALYSIS MEMBRANE

THE SOLUTION FOR YOUR COATING TANK

GEOFLUID
Evolving solid solutions.

alting Electrodialysis Cells, made by ALTING

Membranes

Membrane Material	:	Polyolefin + Polystyrol + Ionic Resins + Divinyl Benzene
Membrane Type	:	Seamless Extruded Membrane
Surface Membrane EDCORE	:	ø 63 mm -> 0.193 m^2 active per/Meter
EDCORE® Max	:	ø 81 mm -> 0.254 m^2 active per/Meter
Membrane Thickness	:	2.8 mm
Burst Resistance	:	> 2 kg/cm^2
Tensile Strength	:	> 250 kg
Electrical Resistance	:	100-150 Ohm/cm^2 (measured by a concentration of 1.5%, CH3 COOH 99%)
Dynamic Transport	:	91% (Acetic Acid at 3%) | 80% (with an over flow of acetic acid)
Ionic Exchange	:	1.4 – 1.6 meg / g dry
Water Permeability	:	No Water Permeation
Authorized pH Range	:	1 – 12

Electrode Description

Material	:	316L / 3R65 seamless extruded, degreased and passivated
Diameter	:	For EDCORE 48.3 mm x 2.77 mm (1" 1/2) For EDCORE Max. 60.3 mm x 2.77mm (2")
Surface	:	0.153 m^2 per Meter (EDCORE®) 0.190 m^2 oer Meter (EDMAX)
Authorized Intensity Max.	:	50 A/m^2

Process parameters (Anolyte)

Inlet Pressure Maximum	:	for EDCORE® 0.8 bar | for EDCORE® Max 0.5 bar
Temperature Max.	:	45°C
△ Temp Inlet / Outlet	:	2°C
Anolyte-Flow Rate	:	3 to 5 L/h/Amp/m^2
Authorized Tension Max.	:	75 A/m^2 active anodic surface

ED-Cell customer driven solutions

Length	:	Adapted to the customer requests
Anolyte Connections	:	Inlet Ø: 9 / 15 mm Outlet Ø: 12 / 19 mm
Electrical Connections	:	16 mm^2 - for VC (Vertical Closed) | 25 mm^2 for HB (Horizontal Bottom)

Advice

Temperature Range: Given by the paint producer for the process. Max. 45°C
The EDCORE® cell can dry and be reused (Membrane cleaning with DI Water)
The EDCORE® cell expand from DRY to WET: +5% EDCORE® | +7% for EDMAX

Authorised Distributor

GEOFLUID
Evolving solid solutions.

Geofluid Processors Private Limited

112, Building No.2, Mittal Industrial Estate,
Andheri Kurla Road, Marol, Andheri (E), Mumbai - 400 059.

+91-22- 6155 5888 +91-22-6155 5800
info@geofluid.com www.geofluid.com