large eathodic oragion —	anode consumed	e demand —	corrosion rate increases rapidly to release more
ydrogen ovorvoltage			
vorvoltage: Extra voltage	above theoretical value	required for electron	le reaction to occur
Applicable especially for	evolution of gases.		
· 1) overvoltage 8 a · Depends on surface	gas is high - Evol	ution of gas is less	
Hydrogen evolution -> ca			
Cathodic meachion	Anodic seaction ————————————————————————————————————	Corrosion reste	
But with increase in	n hydrægen overvoltage,	hydrogen evolution be	comes slower.
	rate of corrosio		
emperature			
Fox corresion (redox	reaction),		
· Rate & reaction inco	Maser Cooper		
· Conductore 2 medi	ium increases (ions mis	rate laster)	
· Breakdown of prof	um increases (ions mig retive layes		
	whom affect at anode, cal		
· Increase of solubility	of corresion product		
	esolved gases (0, , co, et	,)	
Take to a source of	of gas = 1 Coveresism		
l l			
Lower pH of corosive	medium = higher cororosiv	e rate	
low pH> high concer	stration of H ^t -> increase	s rate of eathodic s	reaction
	 	2H+ + 2e> Hz	<u> </u>
			increases nat

· Some metals	et solubility high in acid like Al undergo fast core	rosion in alkaline way?	protective layer, soluble in alkaline
Polarisation			
	potential due to change	in concentration of species	
Anodic polarisation	•	U	
Metal is	, released motal	Metal ions (M [†]) get	Decreases
Budista.	ions cannot move freely to cathode	eoncentrated at anode	tendency for
			J.
			Corrosion falls
· Que La agenta	ulabas ad large to a		D
Cathodic polarisation	ulation of ions in ano	uc rugon	
KUIDIOLO MOVEMENT	De, H to contracte	Rate of collectic	, Rate of anodic reaction decreas
Retarded gremove	of De, Ht to contrade	reaction decreases	
	calhode		4
just r	reary theres less		Connesim falls
udaich	nears theres less 3, H' at eathode shows down reaction		Bucy
	THE CASE OF THE PARTY OF THE PA		
Reduction of holonise	ation:		
· Using depolarise	ખ		
	: complaing agents		
(alhodi	ic: cupric ions		
· Increase in for	nferature		
· Stirring the sol	h -		
Electrical conductive	ity of corposion medium		
		major ahan — - Taskan and	d - Higher cassain
	vily 1 Jaston ion		& - Higher corresion
contesion is mos	re in soline water due	to this	
Humidity			
Humidity 1 -	more marking	mone consison	
	conducting medium		

conducting medium for galvanic cell formation