

## IDEAL COLOUR 51

### Water based Coloured epoxy coating

#### DESCRIPTION

IDEALCOLOUR 51 is a water based coloured coating, based on liquid epoxy resins catalysed with amide polymers.

IDEALCOLOUR 51 is a high-quality two-component epoxy coating with good wear and chemical resistance. It is suitable for the coating of concrete plaster and tile walls and to cover industrial floors.

#### FIELDS OF USE

- To protect plaster and concrete against carbonation, marine atmospheres and industrial pollution (acid rain).
- To protect concrete against low acid and basic chemical solutions.
- To coating tunnels, underpasses, stations, industrial plants and public works.
- To cover tanks, pipes, animal breeding plants, basements, etc.
- To make thin decorative and dust coverings of concrete floors (work plants, garages, etc.).
- To fix plaster and concrete substrates on top.

#### ADVANTAGES

Unlike ordinary paints, IDEALCOLOR 51 has the following advantages:

- Water based, i.e. less toxic for environment and appliers.
- Application to dry and wet substrates (such as not completely cured concrete).
- Excellent adhesion to concrete, bricks, stone, etc.
- Liquid tightness and good water vapour permeability

#### USES

##### Substrate preparation

The surfaces to coat must be compact, without cracks, clean, dry and without any crumbling portions and grout. For better adhesion, substrates must be rough. Highly porous surfaces or those with craters and hat-shaped holes (such as concrete where forms have been removed) must be previously stuccoed with IDEALCOL 100, an epoxy adhesive. Wet the foundation before applying the product.

#### APPLICATION

Pour component "B" into component "A" and mix with a stirrer for 3-5 minutes at a low speed to limit air from entering. Carefully remove any residual material on the walls and in the corners of the bucket. The first coat acts as a primer and must be diluted by approximately 10% with water. Apply one or more coats by brush, roller or airless sprayer; each coat should cover 100-200g/m<sup>2</sup>. Do not apply when substrate temperature is lower than 5-8°C and comply with the below working times.

### Working time (Pot life)

After mixing components, the product starts curing and must be applied according to the following time schedule and room temperature:

+10°C	within approx. 180 minutes
+20°C	within approx. 100 minutes
+30°C	within approx. 50 minutes

### Drying time

	Touch dry	Can be painted over
at +10°C	10 hours	20 hours
at +20°C	7 hours	15 hours
at +30°C	4 hours	10 hours

Curing is complete after 7 days at temperatures not lower than 15°C.

## TECHNICAL SPECIFICATIONS

Dry film appearance	slightly opaque
Mixing ratio	A+B = 1+1 by weight
Mixture dry matter	> 50%
Solids by volume	1kg = 750 micron x m <sup>2</sup>
Mixture density	1.2-1.3 g/cm <sup>3</sup>
Vapour permeability (200 micron thickness)	approx. 7 g/m <sup>2</sup> /24h
Water absorption (200 micron thickness)	< 0.5 %
Carbon dioxide permeability (200 micron thickness)	> 300 m of air
Frost/thaw resistance (200 micron thicknesses after 30 cycles)	9h at -12°C and 8h at +18°C intact
Fire resistance category, fire prevention SW 1	SE 5
Flash point	> 100°C
Concrete adhesion, tear resistance	> 1.5N/mm <sup>2</sup>
Hardness (Persoz)	200 sec.
Elasticity, depth test (Erichsen)	6-7m
Impact resistance (1kg diam. 20mm)	50 cm x kg
Abrasion resistance (Taber-Abraser: stone CS 17, weight 500g, after 1,000 cycles)	50mg
UV resistance	light yellowing, light crumbling

## CHEMICAL RESISTANCE

Exposures in days	7	30	60	120
Deionised water	+	+	+	+
Sodium chloride at 20%	+	+	+	+
Hydrochloric acid 20%	-			
Sulphuric acid 50%	-			
Nitric acid 10%	-			
Chromic acid 5%	+	+	+	+
Phosphoric acid 20%	+	+	+	0
Acetic acid 5%	+	+	+	0
Citric acid 30%	+	+	+	+
Lactic acid 10%	+	+	0	0
Caustic soda 50%	+	+	+	+
Ammonia 25%	+	+	+	+
Wine	+	+	+	+
Milk	+	+	+	+
Whisky	+	+	0	0
Vegetable oils	+	+	+	+
Mineral oils	+	+	+	+
Oil, gas oil	+	+	+	+
Gasoline	+	+	+	+
Ethyl alcohol 10%	+	+	+	+
Methyl alcohol	0	0	-	
Benzol, Toluol	+	+	+	+
Hydrocarbons	0	-		
Industrial waste waters	+	+	+	+

+ = no corrosion    0 = light degradation    - = high degradation

## PACKAGING AND STORAGE

5 / 10 / 20kg buckets (A+B)

Colours: grey, brick-red, ivory.

In their original packaging, sealed and stored in a safe place, this product remains unchanged for at least 12 months at temperatures between +10 and +30°C.

Water can be used to clean tools.

## WARNINGS

Epoxy resins and hardeners can cause irritation. Avoid skin contact and splashes into eyes. Wear goggles, gloves and a working suit. Use a protective cream such as Turexan and a nutrient cream after work. In case of contamination, rinse immediately with water and soap. Do not wash with solvents. If sprayed into eyes, wash with water and call a physician. Do not use the empty containers to store other substances.

### IMPORTANT:

All the information contained in this sheet is based on the best practical and laboratory applications. It is the customer's responsibility to check the product is suitable for the intended use. The manufacturer declines any responsibility for wrong application. It is recommended to carry out tests on small areas before application. This sheet replaces and cancels any previous one. The data contained can be changed at any time. Ideal Work products are for professional use and the company organises periodical training for its customers on demand. Anyone who uses these products without qualification takes all the associated risks.

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