Silicone based binder

NEOSTECKER SI-50

NICCA

Excellent durable binding effect with having reactive group

Characteristics and advantages

< Characteristics >		< Advantages >
1, Excellent adhesion with various fibers	⇒	Excellent binding effect with having reactive group for various fabrics. Highly durable to washings.
2, Binding effect for inorganic materials*)	⇒	Very effective to bind inorganic based materials
3, Provides very bulky hand	⇒	Provides bulky hand with resiliency

*) Inorganic materials: Silicate, Zinc oxide, Titanium oxide, and materials that have no hydrocarbons

Points of handling

1. This is anionic product. When mixing with cationic base materials it may cause complex problem. Check compatibility well with other chemicals prior to actual use.
2. Avoid direct mix with other chemicals.
3. This product is not hazardous or toxic but please refer Material Safety Data Sheet for proper handling

General properties

Appearance	:	White liquid
Composition	:	Silicone, anionic surfactant , water
Ionic nature	:	Anionic
Non-volatile content	:	Approx. 40%
pH	:	Approx. 6 (100%)
Solubility	:	Readily dissolves in water

Application

1. Recommended method Pad or spray application (Use as a binder with functional chemicals)
   * Not suitable for exhaust application
   * In the case of spray application, check the applicability.
   * If high durability is required, apply adequate heat for curing (120 degree C or more).

2. Optimum usage level When used as binder for functional chemicals(especially inorganic materials), apply below ratio as a standard, considering the hand and its durability

   When used with Kirakuru DA-12 (by weight)
   Kirakuru DA-12 : Neostecker SI-50 =10 : 2.5 to 5.0

3. Recommended recipe Durable deodorizing finish (cotton 100% woven)

Kirakuru DA-12	50g /L
Neostecker SI-50	20g/L

Pad → Dry 130 degree C x 2 min.

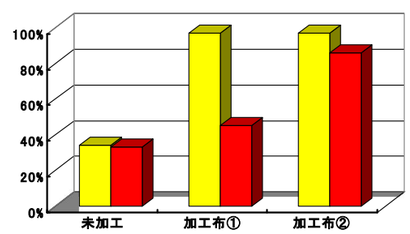
Reference Data

Specimen : Cotton 100% knit (density 120g/m²)
Treatment : Kirakuru DA-12 (g/L) + Neostecker SI-50 (g/L)
Pad (P.U.=100%) → Dry (120□ x 2 min.)
Test method : Deodorization test: refer to Japanese Standard Test by detection tube method
Odor gas and its concentration : Ammonia 100ppm, acetic acid 50ppm
Reduction rate% = (1-residual concentration on ／concentration of blank) x100
Laundry : NICCA method based on JIS L-0217 103 (detergent: JAFET standard detergent)
Result :

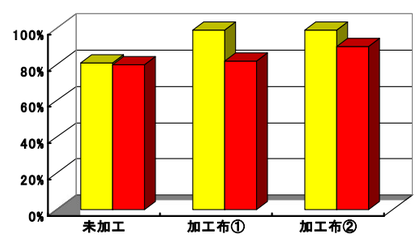
[G/L]	Control	1	2
Kirakuru DA-12		50	50
Neostecker SI-50			20

L-0 L-10

< Ammonia >



< Acetic acid >



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